

## Python - Training Plan - -Semester 5 & 6

Module #	Module Name	Торіс	Sub Topic	Level
1.0	Introduction	Introduction to Python	History of Python	Fundamental
			Features of Python	Fundamental
		Python 2 vs Python 3	which one to start with? Python 2 or Python 3	Fundamental
			Why we should start with Python 3	Fundamental
		Why the demand python is very high ?	Factors responsible for why python is preferred	Fundamental
2.0	Variables and DataTypes	Variables	Naming Convention	Fundamental
		<b>2</b> • • •	Scope of a variable	Fundamental
		Datatypes	Integer	Fundamental
			Pooloop	Fundamental
			String	Fundamental
			Complex Numbers	Fundamental
3.0	Operators	Arithmetic Operators	Addition	Fundamental
0.0			Subtraction	Fundamental
			Multiplication	Fundamental
			Division	Fundamental
			Floor Division	Fundamental
			Exponent	Fundamental
			Modulus	Fundamental
		Comparison Operator	"==" operator	Fundamental
			!= to operator	Fundamental
			<> Operator	Fundamental
			> Operator	Fundamental
			< Operator	Fundamental
			>= Operator	Fundamental
			<= Operator	Fundamental
		Assignment Operator	"=" Operator	Fundamental
			"+=" Operator	Fundamental
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			"//=" Operator	Fundamental
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		Bitwise Operator	"//=" Operator & Binary AND Operator   Binary OR Operator	Fundamental Fundamental Fundamental
		Bitwise Operator	"//=" Operator & Binary AND Operator   Binary OR Operator ^ Binary XOR Operator	Fundamental Fundamental Fundamental Fundamental
		Bitwise Operator	"//=" Operator & Binary AND Operator   Binary OR Operator ^ Binary XOR Operator ~ Binary ones Complement Operator	Fundamental Fundamental Fundamental Fundamental Fundamental
		Bitwise Operator	"//=" Operator & Binary AND Operator   Binary OR Operator ^ Binary XOR Operator ~ Binary ones Complement Operator << Binary Left Shift Operator	Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental
		Bitwise Operator	<pre>"//=" Operator &amp; Binary AND Operator   Binary OR Operator ^ Binary XOR Operator ~ Binary xOR Operator &lt;&lt; Binary ones Complement Operator &lt;&lt; Binary Left Shift Operator &gt;&gt; Binary Right Shift Operator</pre>	Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental
		Bitwise Operator Logical Operator	<pre>"//=" Operator &amp; Binary AND Operator   Binary OR Operator ^ Binary XOR Operator ~ Binary xOR Operator &lt;&lt; Binary ones Complement Operator &lt;&lt; Binary Left Shift Operator &gt;&gt; Binary Right Shift Operator and Logical Operator</pre>	Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental
		Bitwise Operator	<pre>"//=" Operator &amp; Binary AND Operator   Binary OR Operator ^ Binary XOR Operator ~ Binary XOR Operator &lt;&lt; Binary ones Complement Operator &lt;&lt; Binary Left Shift Operator &gt;&gt; Binary Right Shift Operator and Logical Operator or Logical Operator</pre>	Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental
		Bitwise Operator Logical Operator	"//=" Operator & Binary AND Operator   Binary OR Operator ^ Binary XOR Operator ~ Binary nes Complement Operator << Binary Left Shift Operator >> Binary Right Shift Operator and Logical Operator not Logical Operator In Operator	Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental
		Bitwise Operator Logical Operator Membership Operator	"//=" Operator & Binary AND Operator   Binary OR Operator ^ Binary XOR Operator ~ Binary NoR Operator << Binary Left Shift Operator >> Binary Right Shift Operator and Logical Operator not Logical Operator in Operator not Logical Operator	Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental
		Bitwise Operator  Logical Operator  Membership Operator  Identity Operator	<pre>"//=" Operator &amp; Binary AND Operator   Binary OR Operator ^ Binary XOR Operator ~ Binary XOR Operator ~ Binary Left Shift Operator &gt;&gt; Binary Right Shift Operator and Logical Operator or Logical Operator in Operator in Operator in Operator in operator is Operator</pre>	Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental
		Bitwise Operator  Logical Operator  Membership Operator  Identity Operator	"//=" Operator & Binary AND Operator   Binary OR Operator ^ Binary XOR Operator ~ Binary xOR Operator << Binary Left Shift Operator >> Binary Right Shift Operator and Logical Operator not Logical Operator not in operator not in operator is Operator is on Operator	Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental
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4.0	Python Statements	Bitwise Operator Bitwise Operator Logical Operator Membership Operator Identity Operator Operator Precedence Conditional Statement	<pre>"//=" Operator &amp; Binary AND Operator   Binary OR Operator ^ Binary XOR Operator ^ Binary XOR Operator ^ Binary Left Shift Operator &gt;&gt; Binary Right Shift Operator and Logical Operator or Logical Operator in Operator in Operator is Operator is Operator List of all Operators according to Precedence if statement</pre>	Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental
4.0	Python Statements	Bitwise Operator Bitwise Operator Conditional Statement Bitwise Operator B	"//=" Operator & Binary AND Operator I Binary OR Operator A Binary XOR Operator ~ Binary XOR Operator ~ Binary Left Shift Operator >> Binary Right Shift Operator >> Binary Right Shift Operator or Logical Operator or Logical Operator not Logical Operator in Operator is Operator is Operator is ot Operator is ot Operator List of all Operators according to Precedence if statement if elif else statement	Fundamental
4.0	Python Statements	Bitwise Operator Precedence Conditional Statement Control Statement	"//=" Operator & Binary AND Operator I Binary OR Operator A Binary XOR Operator ~ Binary XOR Operator ~ Binary Left Shift Operator >> Binary Right Shift Operator or Logical Operator or Logical Operator not Logical Operator in Operator is Operator is ot Operator is ot Operator is not Operator is not Operator List of all Operators according to Precedence if statement if elif else statement Break and Continue	Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental
4.0	Python Statements	Bitwise Operator Precedence Conditional Statement For Loop	"//=" Operator & Binary AND Operator I Binary OR Operator ^ Binary XOR Operator ~ Binary XOR Operator ~ Binary Left Shift Operator >> Binary Right Shift Operator >> Binary Right Shift Operator or Logical Operator or Logical Operator in Operator in Operator is Operator is ot Operator is not Operator is not Operator List of all Operators according to Precedence if statement if elif else statement Break and Continue For loop using range function	Fundamental
4.0	Python Statements	Bitwise Operator Bitwis	"//=" Operator & Binary AND Operator I Binary OR Operator ^ Binary XOR Operator ~ Binary XOR Operator ~ Binary Left Shift Operator >> Binary Right Shift Operator >> Binary Right Shift Operator or Logical Operator or Logical Operator not Logical Operator in Operator in Operator is operator is operator is not Operator is	Fundamental
4.0	Python Statements	Bitwise Operator Bitwis	"//=" Operator & Binary AND Operator I Binary OR Operator ^ Binary XOR Operator ~ Binary Nor Operator ~ Binary Left Shift Operator >> Binary Right Shift Operator or Logical Operator or Logical Operator not Logical Operator in Operator in Operator is not Ope	Fundamental
4.0	Python Statements Looping Strings	Bitwise Operator Bitwis	"//=" Operator & Binary AND Operator I Binary OR Operator ^ Binary XOR Operator ~ Binary ones Complement Operator < Binary Left Shift Operator >> Binary Right Shift Operator >> Binary Right Shift Operator or Logical Operator or Logical Operator on Logical Operator in Operator in Operator is not Operator is not Operator List of all Operators according to Precedence if statement if elif else statement Break and Continue For loop using range function For loop syntax Concatenation	Fundamental Fundam
4.0	Python Statements Looping Strings	Bitwise Operator Bitwis	"//=" Operator & Binary AND Operator I Binary OR Operator ^ Binary XOR Operator ~ Binary ones Complement Operator < Binary Left Shift Operator >> Binary Right Shift Operator >> Binary Right Shift Operator or Logical Operator or Logical Operator or Logical Operator in Operator in Operator is Operator is ot Operator is not Operator is not Operator List of all Operators according to Precedence if statement if elif else statement Break and Continue For loop using range function For loop using iterator While loop syntax Concatenation Replication	Fundamental Fundam
4.0	Python Statements	Bitwise Operator Bitwis	"//=" Operator & Binary AND Operator I Binary OR Operator ^ Binary OR Operator ^ Binary NoR Operator ~ Binary nes Complement Operator < Binary Left Shift Operator >> Binary Right Shift Operator and Logical Operator or Logical Operator or Logical Operator in Operator not Logical Operator is not Operator is not Operator List of all Operators according to Precedence if statement if elif else statement Break and Continue For loop using range function For loop using iterator While loop syntax Concatenation Replication Slicing	Fundamental Intermediate
4.0	Python Statements  Looping  Strings	Bitwise Operator Bitwis	"//=" Operator & Binary AND Operator I Binary OR Operator ^ Binary OR Operator ^ Binary ones Complement Operator < Binary Left Shift Operator >> Binary Right Shift Operator >> Binary Right Shift Operator or Logical Operator or Logical Operator on Logical Operator in Operator in Operator is operator is operator is not Operator is not Operator List of all Operators according to Precedence if statement if elif else statement Break and Continue For loop using range function For loop using iterator While loop syntax Concatenation Replication Slicing lower(), upper(), capitalize(), title(), swapcase()	Fundamental Intermediate
4.0	Python Statements  Looping  Strings	Bitwise Operator Bitwis	"//=" Operator & Binary AND Operator I Binary OR Operator ^ Binary OR Operator ^ Binary ones Complement Operator < Binary Left Shift Operator >> Binary Right Shift Operator >> Binary Right Shift Operator or Logical Operator or Logical Operator on Logical Operator in Operator not Logical Operator is Operator is operator is operator is not Operator is not Operator List of all Operators according to Precedence if statement if elif else statement Break and Continue For loop using range function For loop using iterator While loop syntax Concatenation Replication Slicing lower(), upper(), capitalize(), title(), swapcase() islower(), upper(), isittle()	Fundamental Intermediate In
4.0	Python Statements   Looping  Strings	Bitwise Operator Bitwis	"//=" Operator & Binary AND Operator I Binary OR Operator ^ Binary OR Operator ^ Binary No Operator ^ Binary ones Complement Operator < Binary Right Shift Operator >> Binary Right Shift Operator and Logical Operator or Logical Operator or Logical Operator in Operator not Logical Operator in Operator is not Operator is not Operator is not Operator List of all Operators according to Precedence if statement if elif else statement Break and Continue For loop using range function For loop using iterator While loop syntax Concatenation Replication Slicing lower(), upper(), capitalize(), title(), swapcase() islower(), iscupper(), istitle() isdenic() incumpric isdinit() indeximat()	Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundamental Fundam
4.0	Python Statements  Looping  Strings	Bitwise Operator Bitwis	"//=" Operator & Binary AND Operator I Binary OR Operator ^ Binary OR Operator ^ Binary XOR Operator ~ Binary noes Complement Operator << Binary Left Shift Operator >> Binary Right Shift Operator and Logical Operator or Logical Operator or Logical Operator in Operator not Logical Operator in Operator is not Operator is not Operator is not Operator List of all Operators according to Precedence if statement if elif else statement Break and Continue For loop using range function For loop using iterator While loop syntax Concatenation Replication Slicing lower(), upper(), capitalize(), title(), swapcase() isalpha(), isnumeric, isdigit(), isdecimal()	Fundamental
4.0	Python Statements	Bitwise Operator Bitwis	<pre>"//=" Operator &amp; Binary AND Operator ] Binary OR Operator ^ Binary OR Operator ^ Binary XOR Operator ^ Binary noes Complement Operator &lt;&lt; Binary Left Shift Operator &gt;&gt; Binary Right Shift Operator and Logical Operator or Logical Operator in Operator in Operator is Operator is operator List of all Operators according to Precedence if statement if elif else statement Break and Continue For loop using range function For loop using iterator While loop syntax Concatenation Replication Slicing lower(), upper(), capitalize(), title(), swapcase() isalpha(), isnumeric, isdigit(), isdecimal() center(), ljust(), rjust() count() endswith() endswith() </pre>	Fundamental
4.0	Python Statements	Bitwise Operator Bitwis	<pre>"//=" Operator &amp; Binary AND Operator ] Binary OR Operator ^ Binary XOR Operator ^ Binary xOR Operator ^ Binary nes Complement Operator &lt;&lt; Binary Left Shift Operator &gt;&gt; Binary Right Shift Operator and Logical Operator or Logical Operator in Operator in Operator is Operator is operator List of all Operators according to Precedence if statement if elif else statement Break and Continue For loop using iterator While loop syntax Concatenation Replication Slicing lower(), upper(), capitalize(), title(), swapcase() islower(), lisupper(), istitle() center(), ligut(), rjust() count(), endswith(), endswith() find(). index(). solit()</pre>	Fundamental
4.0	Python Statements	Bitwise Operator Bitwise Operations Bitwi	<pre>"//=" Operator &amp; Binary AND Operator ] Binary OR Operator ^ Binary OR Operator ^ Binary XOR Operator ^ Binary xOR Operator ^ Binary nes Complement Operator &lt;&lt; Binary Left Shift Operator &gt;&gt; Binary Right Shift Operator and Logical Operator or Logical Operator in Operator in Operator is Operator is operator List of all Operators according to Precedence if statement if elif else statement Break and Continue For loop using range function For loop using iterator While loop syntax Concatenation Replication Slicing lower(), upper(), capitalize(), title(), swapcase() islower(), lisupper(), istitle() center(), ljust(), rindex(), split() Concatenation</pre>	Fundamental         Intermediate         Intermediate         Intermediate         Intermediate <t< th=""></t<>

			Slicing	Intermediate
		In-built Functions	cmp(), len(),max(),min(),list()	Intermediate
			list.append(), list.count(), list.extend(),list.index()	Intermediate
			list.insert(), list.pop(), list.remove(), list.reverse(), list.sort()	Intermediate
			reversed(),sorted()	Intermediate
8.0	Tuple	Operations	Concatenation	Intermediate
			Replication	Intermediate
			Slicing	Intermediate
		In-built Functions	cmp(), len(),max(),min(),tuple()	Intermediate
			sorted(), reversed(),tuple.count(), tuple.index()	Intermediate
9.0	Dictionary	Keys	Which type of data can be made key	Intermediate
		In-built Functions	cmp(), str() , len() , type()	Intermediate
			dict.clear(), dict.copy(), dict.fromkeys(), dict.key()	Intermediate
			dict.has_key() , dict.items(), dict.keys(), dict.setdefault()	Intermediate
			dict.values(), dict.update()	Intermediate
10.0	Sets	Operations	Intersection	Intermediate
			Union	Intermediate
			difference	Intermediate
			Symmetric_difference	Intermediate
		In-built Functions	add()	Intermediate
			clear()	Intermediate
11.0	Functions	Arguments	Required arguments	Advanced
			Keyword arguments	Advanced
			Default arguments	Advanced
			Variable-length arguments	Advanced
		Variables	Local Variable	Advanced
			Global Variable	Advanced
		Misc	Print Function with format function	Advanced
			lambda Function	Advanced
		Higher Order Functions	map	Advanced
			filter	Advanced
			reduce	Advanced
12.0	Object Oriented Programming	Introduction	class, class variable, Data Member	Expert
			Object	Expert
			Instance	Expert
			Methods	Expert
			Attributes	Expert
			Object Instantiation	Expert
		Abstraction	Object Instantiation Encapsulation	Expert Expert
		Abstraction	Object Instantiation Encapsulation Abstraction	Expert Expert Expert
		Abstraction Polymorphism	Object Instantiation Encapsulation Abstraction Operator Overloading	Expert Expert Expert Expert
		Abstraction Polymorphism	Object Instantiation Encapsulation Abstraction Operator Overloading Operator Overriding	Expert Expert Expert Expert Expert
		Abstraction Polymorphism Inheritence	Object Instantiation Encapsulation Abstraction Operator Overloading Operator Overriding Single Inheritence	Expert Expert Expert Expert Expert Expert
		Abstraction Polymorphism Inheritence	Object Instantiation Encapsulation Abstraction Operator Overloading Operator Overriding Single Inheritence Multiple Inheritence	Expert Expert Expert Expert Expert Expert Expert
		Abstraction Polymorphism Inheritence	Object Instantiation Encapsulation Abstraction Operator Overloading Operator Overriding Single Inheritence Multiple Inheritence Multilevel Inheritence	Expert Expert Expert Expert Expert Expert Expert Expert
13.0	Database Management System	Abstraction Polymorphism Inheritence Operations	Object Instantiation         Encapsulation         Abstraction         Operator Overloading         Operator Overriding         Single Inheritence         Multiple Inheritence         Multilevel Inheritence         Creating Database, Insert Operation	Expert Expert Expert Expert Expert Expert Expert Expert Expert
13.0	Database Management System	Abstraction Polymorphism Inheritence Operations	Object Instantiation Encapsulation Abstraction Operator Overloading Operator Overloing Single Inheritence Multiple Inheritence Multilevel Inheritence Creating Database, Insert Operation Write Operation, Update Operation, Delete Operation	Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert
13.0	Database Management System	Abstraction Polymorphism Inheritence Operations	Object Instantiation Encapsulation Abstraction Operator Overloading Operator Overriding Single Inheritence Multiple Inheritence Multilevel Inheritence Creating Database, Insert Operation Write Operation, Update Operation, Delete Operation Normalisation	Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert
13.0	Database Management System	Abstraction Polymorphism Inheritence Operations MySQL	Object Instantiation         Encapsulation         Abstraction         Operator Overloading         Operator Overriding         Single Inheritence         Multiple Inheritence         Multilevel Inheritence         Creating Database, Insert Operation         Write Operation, Update Operation, Delete Operation         Normalisation         select and where clause	Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert
13.0	Database Management System	Abstraction Polymorphism Inheritence Operations MySQL	Object Instantiation Encapsulation Abstraction Operator Overloading Operator Overloading Single Inheritence Multiple Inheritence Multilevel Inheritence Creating Database, Insert Operation Write Operation, Update Operation, Delete Operation Normalisation select and where clause insert	Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert
13.0	Database Management System	Abstraction Polymorphism Inheritence Operations MySQL	Object Instantiation Encapsulation Abstraction Operator Overloading Operator Overloading Single Inheritence Multiple Inheritence Multilevel Inheritence Creating Database, Insert Operation Write Operation, Update Operation, Delete Operation Normalisation select and where clause insert orderby	Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert
13.0	Database Management System	Abstraction Polymorphism Inheritence Operations MySQL Interimente InterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimenteInterimente	Object Instantiation Encapsulation Abstraction Operator Overloading Operator Overloing Single Inheritence Multiple Inheritence Multilevel Inheritence Creating Database, Insert Operation Write Operation, Update Operation, Delete Operation Normalisation select and where clause insert orderby Join	Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert
13.0	Database Management System	Abstraction Polymorphism Inheritence Operations MySQL Intervent In	Object Instantiation Encapsulation Abstraction Operator Overloading Operator Overloading Operator Overriding Single Inheritence Multiple Inheritence Multilevel Inheritence Creating Database, Insert Operation Write Operation, Update Operation, Delete Operation Normalisation select and where clause insert orderby Join Association	Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert
13.0	Database Management System	Abstraction Abstraction Polymorphism Inheritence Operations MySQL NySQL Number Second	Object Instantiation         Encapsulation         Abstraction         Operator Overloading         Operator Overriding         Single Inheritence         Multiple Inheritence         Multilevel Inheritence         Creating Database, Insert Operation         Write Operation, Update Operation, Delete Operation         Normalisation         select and where clause         insert         orderby         Join         Association         select and where clause	Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert
13.0	Database Management System	Abstraction Abstraction Polymorphism Inheritence Operations MySQL NySQL Number of the second	Object Instantiation         Encapsulation         Abstraction         Operator Overloading         Operator Overriding         Single Inheritence         Multiple Inheritence         Multilevel Inheritence         Creating Database, Insert Operation         Write Operation, Update Operation, Delete Operation         Normalisation         select and where clause         insert         orderby         Join         Association         select and where clause         insert	Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert
13.0	Database Management System	Abstraction Abstraction Polymorphism Inheritence Operations MySQL MySQL MongoDB NongoDB	Object Instantiation         Encapsulation         Abstraction         Operator Overloading         Operator Overriding         Single Inheritence         Multiple Inheritence         Multilevel Inheritence         Creating Database, Insert Operation         Write Operation, Update Operation, Delete Operation         Normalisation         select and where clause         insert         orderby         Join         Association         select and where clause         insert         orderby         Join         Association         select and where clause         insert         orderby         Join	Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert
	Database Management System	Abstraction Abstraction Polymorphism Inheritence Operations MySQL MySQL MongoDB NongoDB	Object Instantiation         Encapsulation         Abstraction         Operator Overloading         Multiple Inheritence         Multilevel Inheritence         Creating Database, Insert Operation         Write Operation, Update Operation, Delete Operation         Normalisation         select and where clause         insert         orderby         Join         Association         select and where clause         insert         orderby         Join         Association         select and where clause         insert         orderby         Join	Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert Expert
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			Stack Applications	Expert
	_	Oueue-Introduction	Queue Operations	Expert
		Non-Linear Data Structures-Introduction	Graphs	Expert
	_		Trees	Expert
		Hashing and Hash Table-Introduction	Hashing & Hash Table	Expert
17.0	Algorithms	Dynamic Programming	Longest Palindromic Subsequence	Expert
			Longest Common Subsequence	Expert
			Longest Common Substring	Expert
			Largest kxk submatrix with all entries 1	Expert
			Longest Increasing Subsequence	Expert
			Largest Area Histogram	Expert
			Subset Sum	Expert
			0/1 KnapSack Problem	Expert
			The Coin Change Problem	Expert
		Greedy Algorithms	N Queen Problem	Expert
			The Knight's Tour Problem	Expert
			Subset Sum	Expert
			Activity Selection problem	Expert
			Egyptian Fraction	Expert
			Job Sequencing Problem	Expert
			Huffman Coding	Expert
			Huffman Decoding	Expert
		Graph Algorithm	Adiacency Matrix	Expert
	_		Adjacency List	Expert
			Depth First Search	Expert
			Breadth Eirst Search	Expert
			Peterson Graph Problem	Expert
			Minimum Spanning Tree - Kruskal	Expert
			Minimum Spanning Tree - Prims	Expert
		Searching Algorithm	Linear Search	Expert
			Binary Search	Expert
	_		ternary Search	Expert
			Jump Search	Expert
			Exponential Search	Expert
			Interpolation Search	Expert
		Sorting Algorithm	Bubble Sorting	Expert
			Insertion Sorting	Expert
	_		Selection Sorting	Expert
			Quick Sorting	Expert
	_		Merge Sorting	Expert
		Number Theory	GCD and LCM	Expert
			Prime Factorization and Divisors	Expert
			Fibinocci Numbers	Expert
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			Modular Arithmetic	Expert
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			Chinese Remainder Theorem	Expert
			Factorial	Expert
			Prime Numbers and Primality Test	Expert
			Sieve Algorithms	Expert
		Network Flow Algorithm	Ford-Fulkerson Algorithm for Maximum Flow Problem	Expert
		<u>_</u>	Dinic's Algorithms	Expert
			Hungarian Problem	Expert
			Hopcroft-Karp Algorithm	Expert