Strings

(i)	Write a Python program to print the length of the string entered by user.
	Eg:
	Enter string:Hello
	O/p
	Length of Hello is 5
(ii)	Write a program to print every character of a string entered by user in a new line using loop.
(iii)	Write a program to check if the letter 'e' is present in the word 'Umbrella'. if present print "e is present"
(iv)	Write a program to check if the word 'orange' is present in the "This is orange juice". (use split() function)
(v)	Write a program to find the number of vowels, consonants, digits and white space characters in a string entered by user

Tuples/Dictionaries

(i)	Which of the following is a Python tuple?				
	a) [1, 2, 3]				
	b) (1, 2, 3)				
	c) {1, 2, 3}				
	d) {}				
(ii)	What will be the output of the following Python code?				
	1. >>>t=(1,2,4,3)				
	2. >>>t[1:3]				
()					
(iii)	What will be the output of the following Python code?				
	1. $d = \{"john": 40, "peter": 45\}$				
(i)	What will be the output of the following Dython code?				
(10)	what will be the output of the following Python code?				
	1 + (1 + 2)				
	2. >>>2 * t				

(v)	What will be the output of the following Python code?
	1. >>>t1 = (1, 2, 4, 3) 2. >>>t2 = (1, 2, 3, 4) 3. >>>t1 < t2
(vi)	What will be the output of the following Python code?
	>>> a=(1,2,3,4) >>> del(a[2])
	a) Now, a=(1,2,4)
	b) Now, a=(1,3,4)
	c) Now $a=(3,4)$
	d) Error as tuple is immutable
(vii)	Write a Python script to add a key to a dictionary. Take the key and value as input from user
	Sample Dictionary : {0: 10, 1: 20}
	Expected Result : {0: 10, 1: 20, 2: 30}
(viii)	Write a Python script to check if a given key already exists in a dictionary.

List

(1)					
(1)	Write a Python program to sum all the items in a list.				
	Eg:Input:[1,2,3]				
	O/p:6				
(ii)	Write a Python program to get the largest number from a list				
	Eg:input:[1,2,3]				
	O/p:3				
(iii)	Write a Python program to find the index of an item in a specified list.				
	Eg: input:[1,2,3,4]				
	Num=3				
	O/p:2				
(iv)	What is the final output.				
	L=[0,1,2,3,100]				
	L.append('a')				
	L.append('b')				
	L.remove(2)				
	L.pop()				
	L.pop(0)				
	print(L)				

Data Managament

(i)	Write an SQL query to create the table 'TEAMS' with the following structure: Field Type				
		Varchar(5)]		
	TeamName	Varchar(5)	-		
	reannvanie	varchar(5)			
	TeamLeader	Varchar(5)	-		
	NoofMembers	Integer	-		
	Team_Symbol	Char(1)	-		
(;;)		and for crosting -		whose structure is siver	bolour
(11)	Field		adie BAINK	whose structure is given	Delow:
	Acct number	Integer	5126	E C	Brimany koy
	Namo	Varchar		<u> </u>	
	DirthDate			4	Not Hull
	Balanco	Date		(6.2)	
	Balance	e Decimal		(0,2)	
(111)	Write SQL command to view the structure of EMP table.				
(iv)	A table 'Customers' in a database has 5 columns and no rows in it. What is its cardinality ? What will be its cardinality if 4 rows are added in the table?				
(v)	Sarthya, a student of class XI, created a table "RESULT". Grade is one of the columns of this table. To find the details of students whose Grade have not been entered, he wrote the following MySql query, which did not give the desired result : SELECT * FROM result WHERE grade = NULL; Find what is wrong and rewrite the query.				
(vi)	What is the purpose of DROP TABLE command in MySQL? How is it different from DELETE command?				
(vii)	Saumya had previous	ly created a table n	amed 'Produ	ct' in a database using M	ySQL. Later on She forgot
	the table structure. S	uggest to her the su	uitable MySQ	L command through whic	ch she can check the
	structure of the alrea	dy created table.			
(viii)	Observe the table 'Club' given below:				

				c	LUB	10 - 110	117	
		Men	nber_id I	Member_name	Address	Age	Fees	
		M00	1 5	Sumit	Manipur	20	1000	2
		M00	2 1	Nisha	Kolkata	19	2100	2
		M003 Niharika Nagaland 17 1200					2	
	(i) Wha (ii) If a club the	it is th new c en hov	e cardinality olumn contac w these chan	and degree of th ct_no has been a ges will affect th	ne above given added and two ne degree and o	table? more membe cardinality of t	rs have join he given tab	ed the le.
(ix)	Q9. The Doc_name column of a table Hospital is given below:							
	Do	c nar	me					
	Av	inash						
	Ha	rihara	in					
	Vir	nayak						
	De	epak						
	Sar	njeev						
	(i) Seleo	ct doc	name from	Hospital where	doc name like	"%v":		
	(ii) Sele	ect doo	_ name from	Hospital where	doc name like	e "%e%";		
(x)	Q13. Rewrite the following SQL statement after correcting error(s). Underline the corrections made.							
	INSERT IN STUDENT(RNO, MARKS) VALUE (5 , 78.5) ;							
(xi)	Write o	one sir	nilarity and o	ne difference be	etween CHAR a	and VARCHAR (data type.	
(xii)	Conside	er the	table Project	s given below. V	Vrite comman	ds in SQL for (i)	to (iv) and	output for (v) to (viii)
				Tak	ne . Hoject			
		ID	ProjName	ProjSize	StartDate	EndDate	Cost	
		1	Payroll-MM	Medium	2006-03-17	2006-09-16	60000	
		2	Payroll-ITC	Large	2008-02-12	2008-01-11	500000	
	3	3	IDMgmt-LIT	E Large	2008-06-13	2009-05-21	300000	
		4	Recruit-LITE	Medium	2008-03-18	2008-06-01	50000	
	2	5	IDMgmt-MT	C Small	2007-01-15	2007-01-29	20000	
		6	Recruit-ITC	Medium	2007-03-01	2007-06-28	50000	
	(i) To display all information about projects of Medium ProjSize.							
	(ii) To list the Projsize of projects whose ProjSize ends with LITE.							
	(iii) To list ID, Name, and cost of all the projects in descending order of StartDate.							
	(IV) TO COURT THE NUMBER OF PROJECTS OF COST LESS THAN 100000.				0.			
	(v) SELECT Distinct(ProiSize) FROM Projects				υ,			
	(vii) SELECT * FROM Projects WHERE Cost < 100000 :							

(xiii)	Q3. Define the following terms :				
	(i) Primary Key				
	(ii) Candidate Key				
	(iii) Alternate Key				
	(iv) Foreign Key				
	(v) Referential Integrity				