Topics covered: variables, operators, data structures, conditional statements. MCQ

- 1. Which is the in correct way of naming a variable?
 - a. #var
 - b. Var_1
 - c. Var1
 - d. _var_
- 2. my_list = ['A string',23,100.232,'o',True] what is the result of my_list.pop(0)?
 - a. True
 - b. A
 - c. O,True
 - d. A String
- 3. What will be the output of the following code?

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my_list = [1, 2, 3, 4, 5]
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 $my_list[1:3] = [6, 7]$

print(my_list)

Write the answer:

- 4. What is the purpose of the index() method in python lists?
 - a. It returns the length of the list
 - b. It returns the first index of the specified element.
 - c. It returns the last index of the specified element.
 - d. It reverses the order of the list
- 5 How do you remove an element from a list by it's value in pytho n?
 - a. delete()
 - b. remove()

c. pop() d. discard()					
6. How do you add element to the end of a tuple in python?					
a. append()b. add()c. insert()d. None of the above					
7. How do you access the value in dictionary using its key in python?					
a. By using access() methodb. By using value() methodc. By using indexing with [key]d. By using the retrieve() function					
8. What will happen if you try to access a key in a dictionary that doesn't exist?					
a. It will return 'None'.					
b. It will raise a 'KeyError' exception					
c. It will return a empty dictionary.					
d. It will create a new key with a 'None' value					
9. How do you access the first element of a list in python?					
a. first()					
b. get(0)					
c. [0]					
d. Start					
10. my_list = ['Argue', 'Burglar', 'Parent', 'Linear', 'shape']					
What will be the output of sorted(mylist reverse = True)					

Few more questions

- 1. Write a Python program which accepts the radius of a circle from the user and compute the area.
- 2. Solve the expression. 5.2 + True + bool(-5) 4 + 42//5 +bool(0) + False + int(5.9) + float('1')
- 3. Write a Python program to get the difference between a given number and 17,
 - a. if the number which user is giving, is greater than 17, then perform (number + 17).
 - b. else just print the number.
- 4. To check whether given element exists in list or not??

List =
$$[1,2,3,4,5,6,7,8,9,10]$$
 check if 9 and 12 are present in given list or not

- 5. For the above list, Return the largest item.
- 6. L = [1, 2, 3, 4]
 - a. For the existing list add element 10.
 - b. Add a new element 'St.Claret' at position 2
 - c. Add the list [10,11,12] to the existing list L.
- 7. L2 = [[1, 2, 3], ['b', 'a', 'd'], [7, 8, 9]] How to retrieve element 'd'?
- 8. T = (1,2,3)T[-3:0]

What will be the output? Justify?

9. Dict= {'Name': 'Thor', 'Place': 'Asgard', 'Weapon': 'Hammer', 1: 2, 3: 'power', 'alibies': ['Ironman', 'Captain America'], 'abc': {1: 2, 4: 5}}

Retrieve 'Captain America' from the given dictionary.

- 10. Create a dictionary having key as 1,2,3 and values as 'Python', 'Data Science', 'St.Claret'
 - a. Perform key(),items(),items() methods on the dictionary created.
- 11. first_num, second_num are the two variables which is taking integer values (for eg first_num = 20, second_num = 30)
 - a. if first_num is > 0 then perform, addition of first_num + second_num else print first_num is greater than second_num
 - b. if first_num < 0 print first_num is a negative number.
 - 12 Write a program to
 - a. create 2 string(user defined),
 - b. concatenate the same and print the concatenated string
 - c. accessing sub-string from the concatenated string.
 - 13. Return the count of sub-string "Shubhangi" appears in the given string

String = "Shubhangi is a developer. Shubhangi is a Data Scientist"

- 13(b) Write a python logic to check whether the above given string is starting with 'Shubhangi' and ending with 'Scientist' or not.
 - 14. Write a program to whether a number (accepted from user) is divisible by 2 and 3 both.

15. Write a program to accept a number from 1 to 7 and display the name of the day like 1 for Sunday, 2 for Monday and so on.