Assingment question Python:

Module 1:

1) Write down the feature and limitation of Python.
2) Explain the various operations on String.
3) Write the difference between type casting and type coercion.
4) What are the different types of operator present in Python programming?
5) Write a program to calculate area of a circle.
6) Write a program to perform addition, subtraction, division and multiplication on two floating point numbers.
7) Write a short note on conditional branching statements supported by Python.
8) Write short note on break, continuous and pass statement.
9) Write a program that display all leap years from 1900-2001.
10) Write program to demonstrate the use of nested if structure.

Module 2:

1) Write the difference between function and module and also mention the any 8 build in function and module.
2) Write a program using random and math module.
3) Write the difference between global and local variable in function.
4) Write the difference between lambda, iterative and recursive function.
5) Write a program using function to calculate area of triangle by Heron's formula.
6) With proper example explain how List can be used as a stack and queues.
7) Write short note on function and operation present in List data structure.
8) Write a program to create a list. And also write a program to remove all duplicate value present in the list and reverse it.
9) Write a program to calculate distance between two point using List.
10) Write a short note on filter(), map(), reduce(), variable length argument and default argument in Function.

Module 3:

1) Write a difference between tuple, dictionary and set with example.
2) Explain the any four operations present in tuple, dictionary and set.

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3) What do you mean by recursive function explain with example.

4) Write a program to calculate fibonaci series using with or without recursive function.

5) Write a program that creates a dictionary of cubes of odd numbers in the range of 1-20.

6) Write a program using filter function to list of cubes of numbers from 1-10.

7) Make two set of random integers and apply all set operation on them.

8) Write a program to calculate greatest common divisior .

9) Write a program that prints all consonants in a string.

10) Differentiate between pop(), remove() and discard() method of sets.

Module 4:

1) What do you mean by class members, class variables and instance variables?

2) What does the self argument signify in the class methods?

3) Mentioned the various built in attribute associate in class.

4) Write a program that uses class to store the name and subject name of students. Use list to store the five subject name.

5) Write a program with class employee that keeps track of the number of employees in organization and also store their name ,designation and salary details.

6) Write a class that stores a string and count the no. Of uppercase, lowercase,vowels, consonants, vowels and spaces etc.

7) What do you mean by exceptional handling. Explain it with syntax, flow chart.

8) What do you mean by divide by zero exception. Write aprogram to handle it.

Module 5:

1) Write a program that scans an email addresses and separates the username and domain.

2) Write short note on regular expression.

3) What do you mean by meta-character? Write any 8 meta-character that are frequently used in regular expression.

4) Write a program to extract an email address from a text using regular expression.

5) Write a program that demonstrates the use of different methods such as upper, lower, split, join, count, replace and find on a string.

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6) What are different acess modes in which you can open a file?

7) with an example explain 3 attribute of file object.

8) What are files? Why do we need them?

9) Explain the significance of root node?

10) If str="good morning everyone" , answer the following

✓ Write a program to print the tenth character of the string

✓ Write a instruction that print the index of the first occurrence of the letter 'r' in the string.