

Module – 2

1. Write a Python program to check if a number is positive, negative or zero.
2. Write a Python program to get the Factorial number of given number.
3. Write a Python program to get the Fibonacci series of given range.
4. How memory is managed in Python?
5. What is the purpose continue statement in python?
6. Write python program that swap two number with temp variable and without temp variable.
7. Write a Python program to find whether a given number is even or odd, print out an appropriate message to the user.
8. Write a Python program to test whether a passed letter is a vowel or not.
9. Write a Python program to sum of three given integers. However, if two values are equal sum will be zero.
10. Write a Python program that will return true if the two given integer values are equal or their sum or difference is 5.
11. Write a python program to sum of the first n positive integers.
12. Write a Python program to calculate the length of a string.
13. Write a Python program to count the number of characters (character frequency) in a string
14. What are negative indexes and why are they used?
15. Write a Python program to count occurrences of a substring in a string.
16. Write a Python program to count the occurrences of each word in a given sentence
17. Write a Python program to get a single string from two given strings, separated by a space and swap the first two characters of each string.
18. Write a Python program to add 'ing' at the end of a given string (length should be at least 3). If the given string already ends with 'ing' then add 'ly' instead if the string length of the given string is less than 3, leave it unchanged.
19. Write a Python program to find the first appearance of the substring 'not' and 'poor' from a given string, if 'not' follows the 'poor', replace the whole 'not'...'poor' substring with 'good'. Return the resulting string.
20. Write a Python function that takes a list of words and returns the length of the longest one.
21. Write a Python function to reverses a string if its length is a multiple of 4.
22. Write a Python program to get a string made of the first 2 and the last 2 chars from a given a string. If the string length is less than 2, return instead of the empty string.
Sample String: w3resource'
Expected Result: 'w3ce'
Sample String: 'w3'
Expected Result: 'w3w3'
Sample String: ' w'
Expected Result: Empty String
23. Write a Python function to insert a string in the middle of a string.

Module – 3

1. What is List? How will you reverse a list?
2. How will you remove last object from a list?
3. Suppose list1 is [2, 33, 222, 14, and 25], what is list1 [-1]?
4. Differentiate between append () and extend () methods?
5. Write a Python function to get the largest number, smallest num and sum of all from a list.
6. How will you compare two lists?
7. Write a Python program to count the number of strings where the string length is 2 or more and the first and last character are same from a given list of strings.
8. Write a Python program to remove duplicates from a list.
9. Write a Python program to check a list is empty or not.
10. Write a Python function that takes two lists and returns true if they have at least one common member.
11. Write a Python program to generate and print a list of first and last 5 elements where the values are square of numbers between 1 and 30.
12. Write a Python function that takes a list and returns a new list with unique elements of the first list.
13. Write a Python program to convert a list of characters into a string.
14. Write a Python program to select an item randomly from a list.
15. Write a Python program to find the second smallest number in a list.
16. Write a Python program to get unique values from a list
17. Write a Python program to check whether a list contains a sub list
18. Write a Python program to split a list into different variables.
19. What is tuple? Difference between list and tuple.
20. Write a Python program to create a tuple with different data types.
21. Write a Python program to create a tuple with numbers.
22. Write a Python program to convert a tuple to a string.
23. Write a Python program to check whether an element exists within a tuple.
24. Write a Python program to find the length of a tuple.
25. Write a Python program to convert a list to a tuple.
26. Write a Python program to reverse a tuple.
27. Write a Python program to replace last value of tuples in a list.
28. Write a Python program to find the repeated items of a tuple.
29. Write a Python program to remove an empty tuple(s) from a list of tuples.
30. Write a Python program to unzip a list of tuples into individual lists.
31. Write a Python program to convert a list of tuples into a dictionary.
32. How will you create a dictionary using tuples in python?
33. Write a Python script to sort (ascending and descending) a dictionary by value.
34. Write a Python script to concatenate following dictionaries to create a new one.