

Python Assignment

1. Write a Python script to input the values of a,b,c and calculate the roots of the quadratic equation.
2. Write a Python script to input sides of a triangle and calculate its area.
3. Write a Python script to input the values of Principal, Rate, and Time and calculate Simple Interest and Compound Interest.
4. Write a program to accept an integer and display the factorial of that number. Eg: if the number is 3 then 3! is 6.
5. Write a program to accept an integer and display the reversed integer (store the reversed number in a variable). Eg: If the number is 267 then the reversed number is 762
6. Write a program to print the sum of negative numbers, sum of positive even numbers, sum of positive odd numbers from a list of numbers entered by the user. The list terminates when the num entered is zero.
7. Write a Python function that takes a string as an argument and count the number of vowels and consonants in it. Also write a program to invoke this function.
8. Write a Python function that takes a string as an argument and replace all capital alphabets with small alphabets. Also write a program to invoke this function.
9. Write a Python function that takes a string as an argument and count the occurrences of word "The/the" in it. Also write a program to invoke this function.

10. Write a Python function that takes a list of numbers as an argument and display the maximum and minimum numbers present in the list. Also write a program to invoke this function.
11. Write a Python function that takes a list of numbers as an argument and display the count of positive and negative numbers present in the list. Also write a program to invoke this function.
12. Write a Python function that takes a list of strings as an argument and displays the strings which starts with "A" or "a". Also write a program to invoke this function.
13. Write Python script to display the average of elements from the given list of numbers.
14. Write a Python script to input a list of numbers and a number. Check whether the given number is present in the list or not.
15. Write a Python script to input a list and find all duplicates and display number of times they are present in the list.
16. Write Python script to display the average of elements from the given tuple of numbers.
17. Write a Python script to input a tuple with names of dance forms. Input a dance form and add this dance form at end of the tuple.
18. Write Python script to create a dictionary with class and the name of a class teacher and delete a particular class and its teacher name.
19. Write Python script to input country name and its capital of 5 countries. Add them to a dictionary and also display it.
20. Write Python script to create a dictionary with famous monuments and their location. Input name of any monument and check whether that monument is present in the dictionary or not. If the monument is not present in the dictionary then add it to the dictionary.