**04/July/2024**

1. Write a Python program to find out what version of Python you are using.
2. Write a Python program to display the current date and time.
3. Write a Python program that calculates the area of a circle based on the radius entered by the user.
4. Write a Python program that accepts the user's first and last name and prints them in reverse order with a space between them.
5. Write a Python program that accepts a sequence of comma-separated numbers from the user and generates a list and a tuple of those numbers.
   1. Sample data : 3, 5, 7, 23  
      Output :  
      List : ['3', ' 5', ' 7', ' 23']  
      Tuple : ('3', ' 5', ' 7', ' 23')
6. Write a Python program that accepts a filename from the user and prints the extension of the file.
   1. Sample filename : abc.java  
      Output : java
7. Create a simple calculator that does basic arithmetic
8. Write a Python program to calculate the number of days between two dates.
   1. Sample dates (user inputs) : (2014, 7, 2), (2014, 7, 11)  
      Expected output : 9 days
9. Write a Python program to get the volume of a sphere with radius six.
10. Write a Python program to calculate the difference between a given number and 17. If the number is greater than 17, return twice the absolute difference.
11. Write a Python program to get a newly-generated string from a given string where "Is" has been added to the front. Return the string unchanged if the given string already begins with "Is".

**10/July/2024**

1. write a program to take a list as input, as well as 2 index values. Then swap those two index values with each other, without using a third list
2. create a dictionary using two lists inputted by user.
3. Input a list from user, and input a number. Count how many times that number occurs in the list and print it. Do not use any API.
4. Write a program that takes a list from the user as input. then concat that list elements to a string and print.
5. Take two lists from user as input. Perform set operations on them ( without using API ) - union, intersection etc.