

Lab Exercise – 1

Q1: Write a Python program which accept the radius of a circle from the user and compute the area.

Sample Output :

r = 1.1

Area = 3.8013271108436504

Q2: Temperature of a city in Fahrenheit degrees is input through the keyboard. Write a program to convert this temperature into Centigrade degrees.

Q3: Write a Python Program to make a simple calculator that can add, subtract, multiply and divide

Q4: Write a Python Program to calculate the square root

Q5: Write a Python Program to Solve the quadratic equation $ax^2 + bx + c = 0$
Coeffients a, b and c are provided by the user

[Hint: import complex math module - import cmath]

Q6: Write a Python Program to find the area of triangle
Three sides of the triangle a, b and c are provided by the user

Q7: If a five-digit number is input through the keyboard, write a program to calculate the sum of its digits without using any loop. (Hint: Use the modulus operator '%')

Q8: Write a Python program to print the following string in a specific format

```
Twinkle, twinkle, little star,  
    How I wonder what you are!  
        Up above the world so high,  
        Like a diamond in the sky.  
Twinkle, twinkle, little star,  
    How I wonder what you are
```

Q9: Write a Python program to display your details like name, age, address in three different lines.

Q10: Create a string containing both a single quote and double quote

Q11: Create a triple quoted string that contains single and double quotes.

Q12: Create a character, then obtain its integer representation.

Q13. Create a single string containing 5 copies of the string 'abc'.

Q14. Use the multiplication operator to create a "line" of 50 dashes.

Q15. Convert a string to all upper case.

Q16 : Write a Python program to get a string made of the first 2 and the last 2 chars from a given a string.

Q17: a Python program to get a string from a given string where all occurrences of its first char have been changed to '\$', except the first char itself.

Sample String : 'restart'

Expected Result : 'resta\$t'

Q18: 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.

Sample String : 'abc', 'xyz'

Expected Result : 'xyc abz'