PROGRAMS ON PYTHON

BASICS

1. Write a python program to add three numbers and print result

2. Write a python program to find average of 5 numbers

3. Write a python program to read marks in 6 subject and calculate total and percentage

4. Write a Python program to convert all units of time into seconds.

5. Write a Python program to get an absolute file path.

6. Write a Python program to convert seconds to day, hour, minutes and seconds.
   Write a python program to convert temperature from Fahrenheit to Celsius

7. Write a python program to convert temperature from Celsius to Fahrenheit

8. Write a program to calculate Simple interest

9. Write a program to calculate area of Rectangle

10. Write a program to calculate area of Square

11. Write a program to calculate area of Circle

12. Write a program to calculate Perimeter of Rectangle

13. Write a Program to print ASCII Value of a character

14. Write a Python program to print the following string in a specific format (see the output).

    Sample String : "Our greatest fear should not be of failure, but of succeeding at something that doesn't really matter."

    Output :

Our greatest fear should not be of failure, ***
*************************but of succeeding at something that doesn't really matter.

15. Write a Python program to display the current date and time.

    Sample Output :

    Current date and time :

    2014-07-05 14:34:14

16. Write a Python program which accepts the user's first and last name and print them in reverse order with a space between them.

17. Write a Python program which accepts a sequence of comma-separated numbers from user and generate a list and a tuple with those numbers.

    Sample data : '30', '1',' 15', ' 22', ' 53'

    Output :

    List : ['30', 1,' 15', ' 22', ' 53']

    Tuple : ('30', 1,' 15', ' 22', ' 53')

18. Write a Python program to display the first and last colors from the following list.

    color_list = ["Red","Green","White" ,"Black"]

19. Write a Python program that accepts an integer (n) and computes the value of n+nn+nnn.

    Sample value of n is 5

Expected Result : 615

20.**11.** Write a Python program to print the documents (syntax, description etc.) of Python built-in function(s).
Sample function : abs()
Expected Result :
abs(number) -> number
Return the absolute value of the argument.

21. Write a Python program to get the volume of a sphere with radius 6.

22. Write a Python program to get the difference between a given number and 17, if the number is greater than 17 return double the absolute difference.

23. Write a Python program to test whether a number is within 100 of 1000 or 2000.

24. Write a Python program to count the given number in a given list.

25. Write a Python program to get the n (non-negative integer) copies of the first 3 characters of a given string. Return the n copies of the whole string if the length is less than 2.

26. Write a Python program to test whether a passed letter is a vowel or not.

27.**25.** Write a Python program to check whether a specified value is contained in a group of values.
Test Data :
3 -> [1, 5, 8, 3] : True
-1 -> [1, 5, 8, 3] : False

28. Write a Python program that will accept the base and height of a triangle and compute the area.

29. Write a Python program to compute the greatest common divisor (GCD) of two positive integers.

30. Write a Python program to get the least common multiple (LCM) of two positive integers.

31. Write a Python program to sum of three given integers. However, if two values are equal sum will be zero.

32. Write a Python program to sum of two given integers. However, if the sum is between 15 to 20 it will return 20.

33. Write a Python program that will return true if the two given integer values are equal or their sum or difference is 5.

34. Write a Python program to add two objects if both objects are an integer type.

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

36. Write a Python program to solve (x + y) * (x + y).
    Test Data : x = 4, y = 3
    Expected Output : (4 + 3) ^ 2) = 49

37. Write a Python program to convert height (in feet and inches) to centimeters.

38. Write a Python program to convert the distance (in feet) to inches, yards, and miles.

39. Write a Python program to calculate body mass index.