**1.**Write a Python program to print the following string in a specific format (see the output).   
*Sample String :* "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" *Output :*

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

print("Twinkle, twinkle, little star, \n\tHow I wonder what you are! \n\t\tUp above the world so high, \n\t\tLike a diamond in the sky. \nTwinkle, twinkle, little star, \n\tHow I wonder what you are!")

**2.**Write a Python program to get the Python version you are using. 

**3.**Write a Python program to display the current date and time.  
*Sample Output :*  
Current date and time :  
2014-07-05 14:34:14

**4.**Write a Python program which accepts the radius of a circle from the user and compute the area.   
*Sample Output :*  
r = 1.1  
Area = 3.8013271108436504

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

**7.** Write a Python program to accept a filename from the user and print the extension of that.   
*Sample filename :* abc.java  
*Output :* java

**8.** Write a Python program to display the first and last colors from the following list.   
color\_list = ["Red","Green","White" ,"Black"]

**9.** Write a Python program to display the examination schedule. (extract the date from exam\_st\_date).   
exam\_st\_date = (11, 12, 2014)  
Sample Output : The examination will start from : 11 / 12 / 2014

**10.**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

**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.

**12.** Write a Python program to print the calendar of a given month and year.  
*Note :*Use 'calendar' module.

**13.** Write a Python program to print the following 'here document'.   
*Sample string*:  
a string that you "don't" have to escape  
This  
is a ....... multi-line  
heredoc string --------> example

**14.** Write a Python program to calculate number of days between two dates.  
*Sample dates* : (2014, 7, 2), (2014, 7, 11)  
*Expected output*: 9 days

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

**16.** 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. 

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

**18.** Write a Python program to calculate the sum of three given numbers, if the values are equal then return three times of their sum. 

**19.** Write a Python program to get a new string from a given string where "Is" has been added to the front. If the given string already begins with "Is" then return the string unchanged. 

**20.** Write a Python program to get a string which is n (non-negative integer) copies of a given string. 

**21.** Write a Python program to find whether a given number (accept from the user) is even or odd, print out an appropriate message to the user. 

**22.** Write a Python program to count the number 4 in a given list. 

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

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

**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

**26.** Write a Python program to create a histogram from a given list of integers. 

**27.** Write a Python program to concatenate all elements in a list into a string and return it. 

**28.** Write a Python program to print all even numbers from a given numbers list in the same order and stop the printing if any numbers that come after 237 in the sequence.   
*Sample numbers list* :

numbers = [

386, 462, 47, 418, 907, 344, 236, 375, 823, 566, 597, 978, 328, 615, 953, 345,

399, 162, 758, 219, 918, 237, 412, 566, 826, 248, 866, 950, 626, 949, 687, 217,

815, 67, 104, 58, 512, 24, 892, 894, 767, 553, 81, 379, 843, 831, 445, 742, 717,

958,743, 527

]

**29.** Write a Python program to print out a set containing all the colors from color\_list\_1 which are not present in color\_list\_2.   
*Test Data*:  
color\_list\_1 = set(["White", "Black", "Red"])  
color\_list\_2 = set(["Red", "Green"])  
*Expected Output*:  
{'Black', 'White'}

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

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

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

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

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

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

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

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

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

**39.** Write a Python program to compute the future value of a specified principal amount, rate of interest, and a number of years.   
*Test Data* : amt = 10000, int = 3.5, years = 7  
*Expected Output* : 12722.79  
amt = 10000

int = 3.5

years = 7

future\_value = amt\*((1+(0.01\*int)) \*\* years)

print(round(future\_value,2))

**40.** Write a Python program to compute the distance between the points (x1, y1) and (x2, y2).   
import math

p1 = [4, 0]

p2 = [6, 6]

distance = math.sqrt( ((p1[0]-p2[0])\*\*2)+((p1[1]-p2[1])\*\*2) )

print(distance)