**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

**2.**Write a Python program to find out what version of Python 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 that calculates the area of a circle based on the radius entered by the user.  
*Sample Output :*  
r = 1.1  
Area = 3.8013271108436504

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

**6.** 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.  
*Sample data :*3, 5, 7, 23  
*Output :*  
List : ['3', ' 5', ' 7', ' 23']  
Tuple : ('3', ' 5', ' 7', ' 23')

**7.** Write a Python program that accepts a filename from the user and prints the extension of the file.  
*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 that prints the calendar for 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 the 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 six.

**16.** 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.

**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, return three times their sum.

**19.** 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".

**20.** Write a Python program that returns a string that is n (non-negative integer) copies of a given string.

**21.** Write a Python program that determines whether a given number (accepted from the user) is even or odd, and prints 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 n (non-negative integer) copies of the first 2 characters of a given string. Return 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 that checks whether a specified value is contained within 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 that concatenates all elements in a list into a string and returns it.

**28.** Write a Python program to print all even numbers from a given list of numbers in the same order and stop printing any 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 that prints out all colors from color\_list\_1 that 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 its area.

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

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

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

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

**35.** Write a Python program that returns 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 integers.

**37.** Write a Python program that displays your name, age, and address on 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 number of years.  
*Test Data* : amt = 10000, int = 3.5, years = 7  
*Expected Output* : 12722.79

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