**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 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. -

-

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

-

**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
-

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

**41.** Write a Python program to check whether a file exists. -
-

**42.** Write a Python program to determine if a Python shell is executing in 32bit or 64bit mode on OS. -

-

**43.** Write a Python program to get OS name, platform and release information. -

-

**44.** Write a Python program to locate Python site-packages. -

-

**45.** Write a python program to call an external command in Python. -

-

**46.** Write a python program to get the path and name of the file that is currently executing. -

-

**47.** Write a Python program to find out the number of CPUs using. -

-

**48.** Write a Python program to parse a string to Float or Integer. -

-

**49.** Write a Python program to list all files in a directory in Python. -

-

**50.** Write a Python program to print without newline or space. -

-

**51.** Write a Python program to determine profiling of Python programs. -
Note: A profile is a set of statistics that describes how often and for how long various parts of the program executed. These statistics can be formatted into reports via the pstats module.

-

**52.** Write a Python program to print to stderr. -

-

**53.** Write a python program to access environment variables. -

-

**54.** Write a Python program to get the current username -

-

**55.** Write a Python to find local IP addresses using Python's stdlib -

-

**56.** Write a Python program to get height and width of the console window. -

-

**57.** Write a program to get execution time for a Python method. -

-

**58.** Write a python program to sum of the first n positive integers. -

-

**59.** Write a Python program to convert height (in feet and inches) to centimeters. -

-

**60.** Write a Python program to calculate the hypotenuse of a right angled triangle. -

-

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

-

**62.** Write a Python program to convert all units of time into seconds. -

-

**63.** Write a Python program to get an absolute file path. -

-

**64.** Write a Python program to get file creation and modification date/times. -

-

**65.** Write a Python program to convert seconds to day, hour, minutes and seconds. -

-

**66.** Write a Python program to calculate body mass index. -

-

**67.** Write a Python program to convert pressure in kilopascals to pounds per square inch, a millimeter of mercury (mmHg) and atmosphere pressure. -

-

**68.** Write a Python program to calculate the sum of the digits in an integer. -

-

**69.** Write a Python program to sort three integers without using conditional statements and loops. -

-

**70.** Write a Python program to sort files by date. -

-

**71.** Write a Python program to get a directory listing, sorted by creation date. -

-

**72.** Write a Python program to get the details of math module. -

-

**73.** Write a Python program to calculate midpoints of a line. -

-

**74.** Write a Python program to hash a word. -

-

**75.** Write a Python program to get the copyright information. -

-

**76.** Write a Python program to get the command-line arguments (name of the script, the number of arguments, arguments) passed to a script. -

-

**77.** Write a Python program to test whether the system is a big-endian platform or little-endian platform. -

-

**78.** Write a Python program to find the available built-in modules. -

-

**79.** Write a Python program to get the size of an object in bytes. -

-

**80.** Write a Python program to get the current value of the recursion limit. -

-

**81.** Write a Python program to concatenate N strings. -

-

**82.** Write a Python program to calculate the sum over a container. -

-

**83.** Write a Python program to test whether all numbers of a list is greater than a certain number. -

-

**84.** Write a Python program to count the number occurrence of a specific character in a string. -

-

**85.** Write a Python program to check if a file path is a file or a directory. -

-

**86.** Write a Python program to get the ASCII value of a character. -

-

**87.** Write a Python program to get the size of a file. -

-

**88.** Given variables x=30 and y=20, write a Python program to print t "30+20=50". -

-

**89.** Write a Python program to perform an action if a condition is true. -
Given a variable name, if the value is 1, display the string "First day of a Month!" and do nothing if the value is not equal.

-

**90.** Write a Python program to create a copy of its own source code. -

-

**91.** Write a Python program to swap two variables. -

-

**92.** Write a Python program to define a string containing special characters in various forms. -

-

**93.** Write a Python program to get the identity of an object. -

-

**94.** Write a Python program to convert a byte string to a list of integers. -

-

**95.** Write a Python program to check if a string is numeric. -

-

**96.** Write a Python program to print the current call stack. -

-

**97.** Write a Python program to list the special variables used within the language. -

-

**98.** Write a Python program to get the system time. -

Note : The system time is important for debugging, network information, random number seeds, or something as simple as program performance.

-

**99.** Write a Python program to clear the screen or terminal. -

-

**100.** Write a Python program to get the name of the host on which the routine is running. -

-