**For loop**

**1.** Write a Python program to find those numbers which are divisible by 7 and multiple of 5, between 1500 and 2700 (both included).

**2.** Write a Python program to convert temperatures to and from celsius, fahrenheit.

**3.** Write a Python program to construct the following pattern, using a nested for loop.

\*

\* \*

\* \* \*

\* \* \* \*

\* \* \* \* \*

\* \* \* \*

\* \* \*

\* \*

\*

**4.** Write a Python program to count the number of even and odd numbers from a series of numbers.

*Sample numbers* : numbers = (1, 2, 3, 4, 5, 6, 7, 8, 9)

*Expected Output* :

Number of even numbers : 5

Number of odd numbers : 4

**5.** Write a Python program that prints all the numbers from 0 to 6 except 3 and 6.

Note : Use 'continue' statement.

Expected Output : 0 1 2 4 5

**6.** Write a Python program to get the Fibonacci series between 0 to 50.

Note : The Fibonacci Sequence is the series of numbers :

0, 1, 1, 2, 3, 5, 8, 13, 21, ....

Every next number is found by adding up the two numbers before it.

Expected Output : 1 1 2 3 5 8 13 21 34

**7.** Write a Python program that accepts a string and calculate the number of digits and letters.

Sample Data : Python 3.2

Expected Output :

Letters 6

Digits 2

**8.** Write a Python program to check the validity of password input by users.

Validation :

* At least 1 letter between [a-z] and 1 letter between [A-Z].
* At least 1 number between [0-9].
* At least 1 character from [$#@].
* Minimum length 6 characters.
* Maximum length 16 characters.

**9.** Write a Python program to calculate a dog's age in dog's years.

Note: For the first two years, a dog year is equal to 10.5 human years. After that, each dog year equals 4 human years.

*Expected Output:*

Input a dog's age in human years: 15

The dog's age in dog's years is 73

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

**11.** Write a Python program to find the median of three values.

*Expected Output:*

*Input first number: 15*

*Input second number: 26*

*Input third number: 29*

*The median is 26.0*