

Loops (For & While) (ASSIGNMENT –IV):

14. Write a Program in Python to generate the following patterns up to Specified number of Rows:

(a)

```
  *
 * *
* * *
* * * *
```

(b)

```
 * * * *
  * * *
   * *
    *
```

(c)

```
  1
 2 2
3 3 3
4 4 4 4
```

(d)

```
 1
2 3
4 5 6
7 8 9 10
```

15. Write a Program in Python to generate the PASCAL's triangle up to specified number of rows.

```
  1
 1 1
1 2 1
1 3 3 1
1 4 6 4 1
1 5 10 10 5 1
```

16. Write a Program in Python to check whether a number is Prime or not.

17. Write a Program in Python to find the sum of all the Prime numbers between a given range of numbers.

18. Write a Program in Python to find the sum of all the Even and Odd numbers between 1 and 100.

19. Write a Program in Python to find & Print the Sum of all the Numbers Divisible by 7 within a given Range.