

PYTHON CODING EXERCISE

Topics: Python Loops

Write a Python Program to print below Patterns using For and While Loop:

1.

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

2.

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

3.

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

4.

```
1  
1 2  
1 2 3  
1 2 3 4  
1 2 3 4 5
```

5.

```
1  
2 3  
4 5 6  
7 8 9 10  
11 12 13 14 15
```

6.

```
A           [Use ASCII Values]  
B B  
C C C  
D D D D  
E E E E E
```

7.
A
BC
DEF
GHIJ
KLMNO

8.
K
KK
KKK
KKKK
KKKKK

9.
A
AB
ABC
ABC D
ABC DE

10.
P
Py
Pyt
Pyth
Pytho
Python

11.
1 1 1 1 1
2 2 2 2
3 3 3
4 4
5

12.
6 6 6 6 6
5 5 5 5
4 4 4 4
3 3 3
2 2
1

13.
0 1 2 3 4 5
0 1 2 3 4
0 1 2 3
0 1 2
0 1

14.
1
2 3 4
5 6 7 8 9

15.
6 5 4 3 2 1
5 4 3 2 1
4 3 2 1
3 2 1
2 1
1

16.
1
3 3
5 5 5
7 7 7 7
9 9 9 9 9

17.
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5

18.
1 2 3 4 5
2 2 3 4 5
3 3 3 4 5
4 4 4 4 5
5 5 5 5 5

19.

```
1
2 4
3 6 9
4 8 12 16
5 10 15 20 25
6 12 18 24 30 36
7 14 21 28 35 42 49
```

20.

```
1
2 1
4 2 1
8 4 2 1
16 8 4 2 1
32 16 8 4 2 1
64 32 16 8 4 2 1
128 64 32 16 8 4 2 1
```

21.

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