PySoft IT Solution Corporate Training Center, Pune

Topic: Python Loops

Write a Python Programs 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
B C
D E F
G H I J
K L M N O
```

8.
```
K
K K
K K K
K K K K
K K K K K
```

9.
```
A
A B
A B C
A B C  D
A B C  D E
```

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 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.
```
* * * * * * * * * * * *
* * * * *   * * * * *
* * * * *     * * * * *
* * * *         * * * *
* * *             * * *
* *                 * *
*                     *
*                     *
* *                 * *
* * *             * * *
* * * *         * * * *
* * * * *     * * * * *
* * * * * *   * * * * * *
* * * * * * * * * * * * *
```

22.
```
*
* *
* * *
* * * *
* * * * *
* * * * * *
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* * * * * * *
* * * * * *
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* *
*
```

23.

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

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