## Shubhangi\_Dhikale\_35

## Write a Python Programs to print below Pattern:

```
In [2]: 1)
         n=5
         for i in range(1,n+1):
              for j in range(i):
                  print("*",end=" ")
              print(end="\n")
In [18]:
         for i in range(1,n+1):
              for j in range(1,n+1):
                  if (j<=n-i):</pre>
                      print(" ",end=" ")
                  else:
                      print("*",end=" ")
              print()
```

```
In [25]: 3
         n=5
         for i in range(1,n+1):
              for j in range(1,n+1):
                  if (j<=n-i):
                      print(" ",end="")
                  else:
                      print("*",end=" ")
              print()
In [26]:
         for i in range(n,0,-1):
              num=1
              for j in range(n,0,-1):
                  if j>i:
                      print(" ",end="")
                  else:
                      print("*",end=" ")
              print()
```

```
In [9]: 5)
         # 1
         # 1 2
         # 1 2 3
         # 1 2 3 4
         # 1 2 3 4 5
         n=5
         for i in range(1,n+1):
             for j in range(i):
                 print(j+1,end=" ")
             print()
         1
         1 2
         1 2 3
         1 2 3 4
         1 2 3 4 5
In [10]: 6)
         # 1
         # 2 3
         # 4 5 6
         # 7 8 9 10
         # 11 12 13 14 15
         n=5
         c=1
         for i in range(1,n+1):
             for j in range(i):
                 print(c,end=" ")
                  c+=1
             print()
         1
         2 3
         4 5 6
         7 8 9 10
         11 12 13 14 15
```

```
In [12]: # 7)
               1
              1 1
             1 2 1
         # 1 3 3 1
         # 1 4 6 4 1
         n=5
         a=1
         for i in range(1,n+1):
             for j in range(1,(n-i)+1):
                  print(" ",end=" ")
             for j in range(0,i):
                  if j==0 or i==0:
                      a=1
                  else:
                      a=a*(i-j)//j
                  print(a,end=' ')
             print()
                  1
                1 1
              1 2 1
            1 3 3 1
         1 4 6 4 1
In [ ]:
In [1]: 8)
         # 1
         # 2 3
         # 4 5 6
         # 7 8 9 10
         # 11 12 13 14 15
         n=5
         c=1
         for i in range(1,n+1):
             for j in range(i):
                 print(c,end=" ")
                  c+=1
             print()
         1
         2 3
         4 5 6
         7 8 9 10
         11 12 13 14 15
```

```
In [25]: 9)
           # A
           # B B
           # C C C
           # D D D D
           \# E E E E E
           n=5
           c=65
           for i in range(1,n+1):
                for j in range(i):
                     print(chr(c),end=" ")
                c+=1
                print()
           Α
           ВВ
           C
           \mathsf{D} \; \mathsf{D} \; \mathsf{D} \; \mathsf{D}
           EEEEE
In [26]: 10.
           # A
           # B C
           # D E F
           #GHIJ
           \# K L M N O
           n=5
           c=65
           for i in range(1,n+1):
                for j in range(i):
                     print(chr(c),end=" ")
                     c+=1
                print()
           Α
           ВС
           DEF
           \mathsf{G}\;\mathsf{H}\;\mathsf{I}\;\mathsf{J}
           KLMNO
```

```
In [28]: 11
         # K
         # K K
         # K K K
         # K K K K
         # K K K K K
         n=5
         c=75
         for i in range(1,n+1):
             for j in range(i):
                 print(chr(c),end=" ")
             print()
         Κ
         ΚK
         K K K
         K K K K
         K K K K
In [53]: 12
         # A
         # A B
         # A B C
         # A B C D
         # A B C D
         n=6
         for i in range(1,n):
             c=65
             for j in range(i):
                print(chr(c),end=" ")
                 c+=1
             print()
         Α
         АВ
         АВС
         ABCD
         ABCDE
```

```
In [59]: 13.
         # P
         # Py
         # Pyt
         # Pyth
         # Pytho
         # Python
         x="python"
         a=""
         for i in x:
             a=a+i
             print(a)
         р
         ру
         pyt
         pyth
         pytho
         python
In [61]:
         14.
         # 1 1 1 1 1
         # 2 2 2 2
         # 3 3 3
         # 4 4
         # 5
         n=5
         for i in range(n):
             for j in range(n-i,0,-1):
                 print(i+1,end=' ')
             print()
         1 1 1 1 1
         2 2 2 2
         3 3 3
         4 4
         5
```

```
In [20]: 15.
         #666666
         # 5 5 5 5 5
         # 4 4 4 4
         # 3 3 3
         # 2 2
         # 1
         n=6
         for i in range(n,0,-1):
             for j in range(i):
                 print(i,end=" ")
             print()
         666666
         5 5 5 5 5
         4 4 4 4
         3 3 3
         2 2
         1
In [41]:
         16.
         # 0 1 2 3 4 5
         # 0 1 2 3 4
         # 0 1 2 3
         # 0 1 2
         # 0 1
         n=6
         for i in range(n,1,-1):
             for j in range(i):
                 print(j,end=' ')
             print()
         0 1 2 3 4 5
         0 1 2 3 4
         0 1 2 3
         0 1 2
         0 1
```

```
In [97]: 17.
         # 1
         # 2 3 4
         # 5 6 7 8 9
         n=5
         for i in range(1,n):
             for j in range(i):
                 print(j+1,end=" ")
             print()
         1
         1 2
         1 2 3
         1 2 3 4
In [82]: 18.
         # 6 5 4 3 2 1
         # 5 4 3 2 1
         # 4 3 2 1
         # 3 2 1
         # 2 1
         # 1
         n=6
         for i in range(n,0,-1):
             for j in range(i):
                 print(i,end=" ")
                  i-=1
             print()
         6 5 4 3 2 1
         5 4 3 2 1
         4 3 2 1
         3 2 1
         2 1
         1
```

```
In [10]: 19.
         # 1
         # 3 3
         # 5 5 5
         # 7 7 7 7
         # 9 9 9 9 9
         n=5
         for i in range(1,n+1):
             for j in range(i):
                 print(i*2-1,end=" ")
                 j+=1
             i+=1
             print()
         1
         3 3
         5 5 5
         7 7 7 7
         9 9 9 9 9
In [4]: 20.
                   1
                 1 2
               1 2 3
         # 1234
         # 1 2 3 4 5
         n=6
         for i in range(1,n):
             for j in range(n,0,-1):
                 if j>i:
                     print(" ",end=" ")
                 else:
                     print(num,end=" ")
                     num+=1
             print()
                   1
                 1 2
               1 2 3
             1 2 3 4
           1 2 3 4 5
```

```
In [11]:
         21.
         # 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
         n=5
         for i in range(1,n+1):
              for j in range(1,n+1):
                  if j<=i:</pre>
                      print(i,end=' ')
                  else:
                      print(j,end=' ')
              print()
         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
 In [1]: 22.
         # 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
         n=7
         for i in range(1,n+1):
              for j in range(1,i+1):
                  sqaure=i*j
                  print(i*j,end=" ")
              print()
         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
```

```
In [5]:
# 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

n=9
for i in range(1,n):
    for j in range(-1+i,-1,-1):
        print(2 ** j,end=" ")
    print(" ")
```

```
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
```

```
In [12]: 25.
         n=6
         for i in range(0,n):
             for j in range(0,i+1):
                 print("*",end=" ")
             print(" ")
         print(" ")
         for i in range(n+1,0,-1):
             for j in range(0,i-1):
                 print("*",end=" ")
             print(" ")
 In [ ]:
 In [ ]:
```