Patterns

```
n=int(input("Enter a number: "))
for i in range(1,n+1):
    for j in range(1,i+1):
       print("*",end=" ")
    print("\r")
....
output:
Enter a number: 5
. . .
k=1
for i in range(1,n+1):
    for j in range(1,i+1):
       print(k,end=" ")
       k+=1
    print("\r")
111
output:
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
#for printing characters
num=65
for i in range(1,n+1):
    for j in range(1,i+1):
       print(chr(num),end=" ")
       num+=1
    print("\r")
...
ouput:
Α
ВС
DEF
GHIJ
KLMNO
```

```
#n=int(input("Enter a number: "))
n=5
k=2*(n-1)
for i in range(1,n+1):
    #inner loop for no.of spaces
    for j in range(1,k+1):
        print(end=' ')
    k-=2
    #inner loop for no.of stars
    for j in range(1,i+1):
        print("* ",end='')
    print("\r")
#Rotational pyramid
z=2*(n-1)
for i in range(1,n+1):
    #inner loop for handling spaces
    for j in range(1,z+1):
        print(end=" ")
    z-=2
    #inner loop for printing numbers
    for j in range(1,i+1):
        print(j,end=" ")
    print('\r')
111
        1
      1 2
    1 2 3
  1 2 3 4
1 2 3 4 5
a=2*(n-1)
b=65
for i in range(1,n+1):
    #loop for spaces
    for j in range(1,a+1):
        print(end=" ")
    a-=2
    #innerloop for printing content
    for j in range(1,i+1):
        print(chr(b),end=' ')
        b+=1
    print('\r')
```

```
1.1.1
        Α
      ВС
    DEF
  GHIJ
KLMNO
1.1.1
c=2*(n-1)
d=1
for i in range(1,n+1):
    for j in range(1,c+1):
        print(end=' ')
    c-=2
    for j in range(1,i+1):
        print(d,end=' ')
        d+=1
    print('\r')
        1
      2 3
    4 5 6
  7 8 9 10
11 12 13 14 15
#traingle pattern in python
def triangle(n):
   c=n-1
   for i in range(1,n+1):
       for j in range(1,c+1):
           print(end=' ')
       c=c-1
       for k in range(1,i+1):
           print("*",end=' ')
       print('\r')
triangle(5)
111
Output:
```

```
#Reverse simple pyramid
def reverse_simple_pyraid(n):
   c=2*(n-1)
   for i in range(n+1,0,-1):
        for j in range(1,i+1):
           print("*",end=' ')
       for k in range(1,c+1):
           print(end=' ')
        c=c-1
        print('\r')
reverse_simple_pyraid(5)
Output:
def reverse_simple_pyraid_alpha(n):
   c=2*(n-1)
```

```
d=65
   for i in range(n+1,0,-1):
       for j in range(1,i+1):
          print(chr(d),end=' ')
          d+=1
          if(chr(d)=='Z'):
              break
       for k in range(1,c+1):
          print(end=' ')
       c=c-1
       print('\r')
reverse_simple_pyraid_alpha(6)
'''Output:
ABCDEFG
HIJKLM
N O P Q R
STUV
W X Y
Z [
```