

```
In [1]: for i in range(1,5):
        for j in range(i,5):
            print("*",end=" ")
        print()
```

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

```
In [3]: for i in range(1,5):
        for j in range(0,i):
            print("*",end=" ")
        print()
```

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

```
In [5]: n=int(input("Enter how many rows do you want"))
        for i in range(1,n+1):
            for j in range(0,i):
                print("*",end=" ")
            print()
```

```
Enter how many rows do you want7
*
* *
* * *
* * * *
* * * * *
* * * * * *
* * * * * * *
```

```
In [6]: n=int(input("Enter how many rows do you want"))
        for i in range(1,n+1):
            for j in range(1,i+1):
                print(j,end=" ")
            print()
```

```
Enter how many rows do you want7
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
1 2 3 4 5 6
1 2 3 4 5 6 7
```

```
In [7]: n=int(input("Enter how many rows do you want"))
        for i in range(1,n+1):
            for j in range(1,i+1):
                print(i,end=" ")
            print()
```

```
Enter how many rows do you want7
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
6 6 6 6 6 6
7 7 7 7 7 7 7
```

```
In [12]: n=int(input("Enter how many rows do you want"))
         for i in range(1,n+1):
             for j in range(i,n+1):
                 print(j,end=" ")
             print()
```

```
Enter how many rows do you want7
1 2 3 4 5 6 7
2 3 4 5 6 7
3 4 5 6 7
4 5 6 7
5 6 7
6 7
7
```

```
In [14]: n=int(input("Enter how many rows do you want"))
         for i in range(1,n+1):
             for j in range(1,i+1):
                 print(i,end=" ")
             print()
```

```
Enter how many rows do you want7
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
6 6 6 6 6 6
7 7 7 7 7 7 7
```

```
In [24]: n=int(input("Enter how many rows do you want"))
h=n
for i in range(1,n+1):
    for j in range(n,0,-1):
        print(h,end=" ")
    print()
    h-=1
    n-=1
```

```
Enter how many rows do you want7
7 7 7 7 7 7 7
6 6 6 6 6 6
5 5 5 5 5
4 4 4 4
3 3 3
2 2
1
```

```
In [2]: n=int(input("Enter how many rows do you want"))

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

```
Enter how many rows do you want7
      *
    * *
  * * *
* * * *
* * * * *
* * * * *
* * * * *
```

```
In [3]: n=5
c=0
for i in range(1,n+1):
    c+=1
    for j in range(n-(i)):
        print(" ",end=" ")
    for k in range(2*i-1):
        print("*",end=" ")
    print()
    if(i>5):
        for i in range(n-1,1,-1):
            for k in range(c,c+1):
                print(" ",end=" ")
            for j in range(1,c+2):
                print("*",end=" ")
        print()
```

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

```
In [4]: n=5
c=0
for i in range(1,n+1):
    c+=1
    for j in range(n-(i)):
        print(" ",end=" ")
    for k in range(2*i-1):
        print("*",end=" ")
    print()
    if(c>=5):
        f=c
        x=1
        for i in range(n-1,0,-1):
            for k in range(f,f+x):
                print(" ",end=" ")
            for j in range(0,c+2):
                print("*",end=" ")
            print()
            c-=2
            x+=1
```

```

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

```
In [43]: n=10
c=0

for i in range(0,n):
    c+=1
    for j in range(0,i):
        print(" ",end=" ")
    for k in range(i+1,n+1):
        print(k,end=" ")
    print()
if c>0:
    s=0
    for i in range(n-1,0,-1):
        for j in range()
```

```

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

```
In [41]: n=5
cn=1
for i in range(1,n+1):
    for j in range(cn+i-1,cn-1,-1):
        print(j,end=" ")
    cn+=i
    print()
```

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

```
In [ ]:
```