Task-1

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1

In [4]:
```python
n=int(input("Enter a number"))
for i in range(n+1,0,-1):
    for j in range(0,i-1):
        print("5",end=" ")
    print("")
```

```
Enter a number5
5 5 5 5 5
5 5 5 5
5 5 5
5 5
5
```

2

In [2]:
```python
n=int(input("Enter a number"))
for i in range(n,0,-1):
    for j in range(0,i+1):
        print(j,end=" ")
    print("")
```

```
Enter a number5
0 1 2 3 4 5
0 1 2 3 4
0 1 2 3
0 1 2
0 1
```

3

In [3]:
```python
n=int(input("Enter a number"))
for i in range(1,n+1):
    for j in range(0,i):
        print(i*2-1,end=" ")
    print("")
```

```
Enter a number5
1
3 3
```

```
5 5 5
7 7 7 7
9 9 9 9 9
```

4

In [4]:
```python
n=int(input("Enter a number"))
for i in range(1,n+1):
    for j in range(0,i):
        print(i,end=" ")
        i-=1
    print("")
```

```
Enter a number5
1
2 1
3 2 1
4 3 2 1
5 4 3 2 1
```

5

In [5]:
```python
n=int(input("Enter a number"))
c=0
for i in range(1,n+1):
    c+=i
    k=c
    for j in range(i):
        print(k,end=" ")
        k-=1
    print()
```

```
Enter a number4
1
3 2
6 5 4
10 9 8 7
```

6

In [6]:
```python
n=int(input("Enter a number"))
l=[0]*n
k=[0]*n
l[0]=1
for i in range(1,n):
    for i in range(n):
        k[i]=l[i]
    for j in range(1,i+1):
        l[j]=k[j]+k[j-1]
    for i in l:
        if i!=0:
            print(i,end=" ")
    print()
```

```
Enter a number7
```

```
1 1
1 2 1
1 3 3 1
1 4 6 4 1
1 5 10 10 5 1
1 6 15 20 15 6 1
```

7

In [7]:
```python
n=int(input("Enter a number"))
for i in range(1,n+1):
    k=i
    for j in range(1,n+1):
        if i>=j:
            pass
        else:
            k+=1
        print(k,end=" ")
    print()
```

```
Enter a number5
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
```

8

In [8]:
```python
n=int(input("Enter a number"))
for i in range(1,n+1):
    k=i
    for j in range(i):
        print(k,end=" ")
        k+=i
    print()
```

```
Enter a number8
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
8 16 24 32 40 48 56 64
```

9

In [15]:
```python
n=int(input("Enter a number"))
for i in range(n):
    for j in range(i):
        print("",end=" ")
    for j in range(n-i):
```

```
        print("*",end=" ")
    print()
```

```
Enter a number6
* * * * * *
 * * * * *
  * * * *
   * * *
    * *
     *
```

10

In [10]:
```python
n=int(input("Enter a number"))
for i in range(n):
    for j in range(n-i):
        print("",end=" ")
    for j in range(i):
        print("* ",end=" ")
    print()
```

```
Enter a number8

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

11

In [11]:
```python
n=int(input("Enter a number"))
for i in range(1,n+1):
    for j in range(i):
        print("*",end=" ")
    print()
print()
for i in range(n+1,1,-1):
    for j in range(i-1):
        print("*",end=" ")
    print()
```

```
Enter a number6
*
* *
* * *
* * * *
* * * * *
* * * * * *

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

12

In [12]:
```python
n=int(input("Enter a number"))
for i in range(1,n+1):
    for j in range(i):
        print("*",end=" ")
    print()
for i in range(n,1,-1):
    for j in range(i-1):
        print("*",end=" ")
    print()
```

```
Enter a number5
*
* *
* * *
* * * *
* * * * *
* * * *
* * *
* *
*
```

13

In [13]:
```python
n=int(input("Enter a number"))
for i in range(1,n+1):
    for j in range(n-i):
        print(" ",end=" ")
    for j in range(i):
        print("*",end=" ")
    print()
for i in range(n-1,0,-1):
    for j in range(n-i):
        print(" ",end=" ")
    for j in range(i):
        print("*",end=" ")
    print()
```

```
Enter a number5
        *
      * *
    * * *
  * * * *
* * * * *
  * * * *
    * * *
      * *
        *
```

14

In [14]:
```python
n=int(input("Enter a number"))
for i in range(n):
    for j in range(i):
```

```
        print("",end=" ")
    for j in range(n-i):
        print("*",end=" ")
    print()
for i in range(n,0,-1):
    for j in range(i-1):
        print("",end=" ")
    for j in range(n-i+1):
        print("*",end=" ")
    print()
```

```
Enter a number5
* * * * *
 * * * *
  * * *
   * *
    *
    *
   * *
  * * *
 * * * *
* * * * *
```

15

In [3]:
```python
n=int(input("Enter a number"))
print("*"*n,end="\n")
i=(n//2)-1
j=2
while i!=0:
    while j<=(n-2):
        print("*"*i,end="")
        print("_"*j,end="")
        print("*"*i,end="\n")
        i=i-1
        j=j+2
```

```
Enter a number16
****************
*******__*******
******____******
*****_____*****
****_____****
***_____***
**_____**
*_____*
```

In [ ]: