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1

In [3]:
```python
n=int(input("enter a number: "))
for i in range(n):
    print(((str(n)+" ")*(n-i)),end=" ")
    print()
```

```
enter a number: 5
5 5 5 5 5
5 5 5 5
5 5 5
5 5
5
```

2

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

    print()
```

```
enter a number: 5
0 1 2 3 4 5
0 1 2 3 4
0 1 2 3
0 1 2
0 1
```

3

In [5]:
```python
n=int(input("enter a number: "))
c=1
for i in range(1,n+1):
    print(((str(c)+" ")*(i)),end=" ")
    c+=2
    print()
```

```
enter a number: 5
1
3 3
5 5 5
7 7 7 7
9 9 9 9 9
```

4

In [6]:
```python
n=int(input("enter a number: "))
for i in range(1,n+1):
    c=i
    for j in range(i):
        print(c,end=" ")
        c-=1

    print()
```

```
enter a number: 5
1
2 1
3 2 1
4 3 2 1
5 4 3 2 1
```

5

In [7]:
```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 number: 5
1
3 2
6 5 4
10 9 8 7
15 14 13 12 11
```

6

In [8]:
```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 number: 7
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 [9]:
```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 number: 5
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 [10]:
```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 number: 8
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 [11]:
```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 number: 6
* * * * * *
 * * * * *
  * * * *
   * * *
    * *
     *
```

10

In [12]:
```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 number: 7

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

11

In [13]:
```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 number: 6
*
* *
* * *
* * * *
* * * * *
* * * * * *

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

12

In [ ]:
```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()
```

13

In [10]:
```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 number: 5
        *
      * *
    * * *
  * * * *
* * * * *
  * * * *
    * * *
      * *
        *
```

14

In [11]:
```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 number: 5
* * * * *
 * * * *
  * * *
   * *
    *
    *
   * *
  * * *
 * * * *
* * * * *
```

15

In [13]:
```python
n=int(input("enter a number: "))
print("*" * n, end="\n")
i = (n // 2) - 1
```

```python
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 number: 14
*************
******__******
*****____*****
****_____****
***_____***
**_____**
*_____*
```