# Task-1

# Name:Trivedula Dhinakar swamy

# Reg id:SIRSS1193

1

2

```
In [10]:
    n=int(input('enter a number:'))
    for i in range(n+1,1,-1):
        for j in range(i):
            print(j,end=" ")
        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
```

```
In [11]:
    n=int(input('enter a number:'))
    for i in range(1,2*n,2):
        for j in range(0,i,2):
            print(i,end=" ")
        print(" ")

enter a number:5
1
3 3
```

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

### 4

```
In [12]:
    n=int(input('enter a number:'))
    for i in range(1,n+1):
        for j in range(i,0,-1):
            print(j,end=" ")
        print(" ")

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

### 5

```
In [14]:
    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:4
1
3 2
```

## 6

6 5 4 10 9 8 7

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
```

```
In [16]:
          n=int(input('enter a number:'))
          for i in range(1, n + 1):
              for j in range(1, n + 1):
                   if j <= i:
                       print(i, end=' ')
                   else:
                       print(j, 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
```

```
In [17]:
          n=int(input('enter a number:'))
          for i in range(1,n+1):
              for j in range(1,i+1):
                   print(i*j,end=" ")
              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
```

```
In [18]:
          n=int(input('enter a number'))
          for i in range(n,0,-1):
              for j in range(0,n-i):
                  print(end=" ")
              for i in range(i):
                   print("*",end=' ')
              print()
         enter a number6
```

\* \* \*

### 10

### 11

```
In [20]:
    n=int(input('enter a number'))
    for i in range(n+1):
        print()
    for i in range(n,0,-1):
        print("* "*i)

enter a number6

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

```
In [21]:
    n=int(input('enter a number'))
    for i in range(n+1):
        print("* "*i)
```

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

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

enter a number5

# 13

```
In [22]:
          n = int(input('enter a number'))
          i = 1
          while i <= n:
              j = i
              while j < n:
                  print(' ', end=' ')
                  j += 1
              k = 1
              while k <= i:
                  print('*', end=' ')
                  k += 1
              print()
              i += 1
          i = n
          while i >= 1:
              j = i
              while j <= n:
                  print(' ', end=' ')
                  j += 1
              k = 1
              while k < i:
                  print('*', end=' ')
                  k += 1
              print('')
              i -= 1
```

```
n=int(input('enter a number:'))
In [23]:
          i = 0
          while i <= n - 1:
              j = 0
              while j < i:
                  print('', end=' ')
                  j += 1
              k = i
              while k <= n - 1:
                  print('*', end=' ')
                   k += 1
              print()
              i += 1
          i = n - 1
          while i >= 0:
              j = 0
              while j < i:
                  print('', end=' ')
                  j += 1
              k = i
              while k <= n - 1:
                  print('*', end=' ')
                  k += 1
              print('')
              i -= 1
```

```
In [24]:
         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 number14
         ******
         *****
         *****
                 ****
```

