

# Assignment\_1

In [ ]:

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In [7]:

*# question 1*

```
for i in range(5):  
    for j in range(5-i):  
        print("5",end=" ")  
    print()
```

```
5 5 5 5 5  
5 5 5 5  
5 5 5  
5 5  
5
```

In [14]:

*# question 2*

```
for i in range(6):  
    if i==5:  
        break  
    for j in range(6-i):  
        print(j,end=" ")  
    print()
```

```
0 1 2 3 4 5  
0 1 2 3 4  
0 1 2 3  
0 1 2  
0 1
```

In [21]:

*#question 3*

```
for i in range(1,10,2):  
    for j in range(0,i,2):  
        print(i,end=" ")  
    print()
```

```
1  
3 3  
5 5 5  
7 7 7 7  
9 9 9 9 9
```

In [30]:

#question 4

```
for i in range(6):
    for j in range(i,0,-1):
        print(j,end=" ")
    print()
```

```
1
2 1
3 2 1
4 3 2 1
5 4 3 2 1
```

In [43]:

# question 5

```
k=0
for i in range(1,5):
    k+=i
    for j in range(k,k-i,-1):
        print(j,end=" ")
    print()
```

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

In [48]:

# question 6

```
n=7
for x in range(1,n+1):
    y=1
    for z in range(1,x+1):
        print(y,end=" ")
        y=y*(x-z)//z
    print()
```

```
1
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
```

In [52]:

# question 7

```
n=5
for x in range(1,n+1):
    for y in range(1,n+1):
        if y<x:
            print(x,end=" ")
        else:
            print(y,end=" ")
    print()
```

```
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 [61]:

# question 8

```
x=int(input("enter number:"))
n=int(input("enter number:"))
for j in range(1,x):
    for k in range(1,j+1):
        print(j*k,end=" ")
    print()
```

```
enter number:9
enter number:4
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 [95]:

# question 9

```

n=4
m = (2 * n) - 2
for x in range(6,0,-1):
    for y in range(m):
        print(" ",end="")
    m = m + 1
    for z in range(0,x):
        print("* ",end="")
    print()

```

```

* * * * *
 * * * *
  * * *
   * *
    *

```

In [88]:

# question 10

```

n = int(input("Enter the number of rows: "))
m = (2 * n) - 2
for i in range(0, n):
    for j in range(0, m):
        print(end=" ")
    m = m - 1
    for j in range(0, i + 1):
        print("* ", end=' ')
    print(" ")

```

Enter the number of rows: 7

```

      *
     * *
    * * *
   * * * *
  * * * * *
 * * * * * *
* * * * * *

```

In [107]:

# question 11

```

for x in range(1,7):
    for y in range(1,x+1):
        print("*",end=" ")
    print()
for i in range(1):
    print()
for x in range(1,7):
    for y in range(7,x,-1):
        print("*",end=" ")
    print()

```

```

*
* *
* * *
* * * *
* * * * *
* * * * * *

* * * * * *
* * * * *
* * * *
* * *
* *
*

```

In [112]:

# question 12

```

for x in range(1,5):
    for y in range(1,x+1):
        print("*",end=" ")
    print()
for x in range(1,6):
    for y in range(6,x,-1):
        print("*",end=" ")
    print()

```

```

*
* *
* * *
* * * *
* * * * *
* * * *
* * *
* *
*

```

In [121]:

# question 13

```

for x in range(1,6):
    for y in range(6,x,-1):
        print(" ",end=" ")
    for z in range(0,x):
        print("*",end=" ")
    print()
for x in range(6,0,-1):
    for y in range(x,6):
        print(" ",end=" ")
    for z in range(0,x):
        print("*",end=" ")
    print()

```

```

      *
     * *
    * * *
   * * * *
  * * * * *
 * * * * *
* * * * *
 * * * * *
  * * * *
   * * *
    * *
     *

```

In [136]:

# question 14

```

for i in range(5,0,-1):
    for j in range(i,6):
        print(" ",end="")
    for k in range(0,i):
        print("*",end=" ")
    print()
for i in range(1,6):
    for j in range(6,i,-1):
        print(" ",end="")
    for k in range(0,i):
        print("*",end=" ")
    print()

```

```

* * * * *
 * * * *
  * * *
   * *
    *
     *
    * *
   * * *
  * * * *
 * * * * *
* * * * *

```

In [137]:

```
# question 15
```

```
rows=14
print("*" * rows,end="\n")
i=(rows // 2)-1
j=2
while i!=0:
    while j<=(rows-2):
        print("*" * i,end="")
        print("_" * j,end="")
        print("*" * i,end="\n")
        i=i-1
        j=j+2
```

```
*****
*****  *****
*****  _  *****
*****  _  *****
*****  _  *****
***     _  ***
**      _  **
*       _  *
*       _  *
```

In [ ]: