ass

Use the "Run" button to execute the code.

```
!pip install jovian --upgrade --quiet
```

```
import jovian
```

```
# Execute this to save new versions of the notebook
jovian.commit(project="ass")
```

Que-1

```
for i in range (1,6):
    for j in range(1,i+1):
        print(j, end='')
    print()
```

1
12
123
1234
12345

```
for i in range (1,6):
    for j in range(1,i+1):
        print(i, end='')
    print()
```

1
22
333
4444
55555

```
i=0

while i<5:
    j=1
    i+=1
    while j<i+1:
        print(j, end='')
        j+=1
    print()
```

```
1
12
123
1234
12345
```

```python
for i in range(1,6,):
    for j in range(1,i+1):
        print(j,end="")
    print()
for i in range(5,1,-1):
    for j in range(1,i):
        print(j,end="")
    print()
```

```
1
12
123
1234
12345
1234
123
12
1
```

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

```
12345
1234
123
12
1
1
12
123
```

1234

12345

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

54321

4321

321

21

1

1

21

321

4321

54321

```python
#patten 6
for i in range(1,6):
    print(" "*(5-i),end='')
    for j in range(1,i+1):
        print(j,end=' ')
    print()
```

    1

   1 2

  1 2 3

 1 2 3 4

1 2 3 4 5

```python
#pattern 7
for i in range(1,6):
    for j in range(5,i-1,-1):
        print(j,end="")
    print()
```

54321

5432

543

54

5

```
#pattern 8
for i in range (5,0,-1):
    for j in range(5,i-1,-1):
        print(j,end="")
    print()
```

5

54

543

5432

54321

```
#pattern 9
for i in range (6,0,-1):
    for j in range(1,i):
        print(j,end="")
    print()
```

12345

1234

123

12

1

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

12345

2345

345

45

5

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

12345

2345

345

45
5

```
#pattern 10
#r = int(input("enter no.of rows \n"))
k = 1
for i in range(5):
    for j in range(0,i+1):
        print(k,end=" ")
        k=k+1
    print()
```

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

```
k=1
i=1

while i<15:
    j=1
    while j<=i and k<=15:
        print(k,end=' ')
        k+=1
        j+=1
    i+=1
    print("")
```

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

```
#pattern 11
for i in range (1,6):
```

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

1
21
321
4321
54321

```
#pattern12
n=int(input("Enter a no: "))
for i in range(1,n+1):#to print rows
    for j in range(1,i+1):#to print coloumns
        print(i, end=" ")
        i+=5
    print(" ")
```

Enter a no: 5
1
2 7
3 8 13
4 9 14 19
5 10 15 20 25

```
#pattern 15
for i in range(5,0,-1):
    print(" "*(5-i),end='')
    for j in range(1,i+1):
        print(j,end=' ')
    print()
```

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

```
#pattern12
n=int(input("Enter a no: "))
for i in range(1,n+1):#to print rows
    for j in range(1,i+1):#to print coloumns
        print(i, end=" ")
        i+=5
    print(" ")
```

```
Enter a no: 5
1
2 7
3 8 13
4 9 14 19
5 10 15 20 25
```

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

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

```python
#pattern 16
for i in range(1,6):
    print(" "*(5-i),end='')
    for j in range(1,i+1):
        print(j,end=' ')
    print()
for i in range(4,0,-1):
    print(" "*(5-i),end='')
    for j in range(1,i+1):
        print(j,end=' ')
    print()
```

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

```python
i=1

while i<6:
    j=1
```

```
    while j<6 and j<=i :
        print(j,end=' ')

        j+=1
    i+=1

    print("")
```

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

```
i=ord('A')

while i<ord('F'):
    j=ord("A")
    while j<ord('F') and j<=i :
        print(chr(j),end=' ')


        j+=1
    i+=1

    print("")
```

```
A
A B
A B C
A B C D
A B C D E
```

```
n=int(input("Enter the no. of rows: "))
for i in range(1, n + 1):
    print(" "*(n-i),end='')
    c = 1
    for j in range(1, i + 1):

        print(c, end = " ")
        c = int(c * (i - j) / j)
    print(" ")
```

```
Enter the no. of rows: 5
    1
   1 1
  1 2 1
```

```
1 3 3 1
1 4 6 4 1
```

```
#pattern 17
for i in range(1,6):
    print(" "*i,end='')
    for j in range(i,6,):
        print(j,end=" ")
    print()
for i in range(6,1,-1):
    print(" "*(i-1),end='')
    for j in range(i-1,6):
        print(j,end=" ")
    print()
```

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

```
#pattern 17
for i in range(1,6):
    print(" "*i,end='')
    for j in range(i,6,):
        print(j,end=" ")
    print()
for i in range(6,1,-1):
    print(" "*(i-1),end='')
    for j in range(i-1,6):
        print(j,end=" ")
    print()
```

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

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

```python
#pattern 19
for i in range (6,1,-1):
    print(" "*(i-1),end='')
    for j in range (i-1,6):
        print(j,end=" ")
    print()
```

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

```python
#pattern 20
for i in range(1,6):
    print(" "*(5-i),end='')
    for j in range (1,i+1):
        print(j,end="")
    for j in range(i-1,0,-1):
        print(j,end="")
    print()
```

```
    1
   121
  12321
 1234321
123454321
```

```python
#pattern 21
for i in range(1,6):
    for j in range (1,i+1):
        print(j%2,end="")
    print()
```

```
1
10
101
1010
10101
```

```python
#pattern 22
for i in range(1,6):
    for j in range(1,6):
```

```
        if i==j:
            print(j,end="")
        else:
            print(0,end="")

    print()
```

```
10000
02000
00300
00040
00005
```

```
#pattern 23
for i in range (1,6):
    print("1"*(5-i),end='')
    for j in range (1,i+1):
        print(i,end="")
    print()
```

```
11111
11122
11333
14444
55555
```

```
#pattern 24
for i in range (1,6):
    for j in range (i,6):
        print(j,end="")

    for j in range(4,i-1,-1):
        print(j,end="")
    print()
```

```
123454321
2345432
34543
454
5
```

```
#pattern 25
for i in range (1,6):
    print(" "*(5-i),end='')
    for j in range (i):
        print(i,end= " ")
    print()
```

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

```
#pattern 26
for i in range (6,1,-1):

    for j in range (i-1,6):
        print(j,end="")
    for j in range (1,i-1):
        print("5",end='')
    print()
```

```
55555
45555
34555
23455
12345
```

```
#pattern 27
k=1
i=1
while i<15:
    j=1
    while j<=i and k<=15:
        print(k,end=' ')
        j+=1
        k+=1
    i+=1
    print(" ")
```

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

```python
lines=7
i=1

while i<=lines:
    j=1
    while j<=i:
        temp=i*j
        print(temp, end='', flush=True)
        print(" ", end='', flush=True)
        j=j+1
    print("")
    i=i+1
```

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