

In [18]:

```
#for Loop
"""
range(int stop)
range(int start,int stop)
range(int start,int stop,int step)
"""
for i in range(10,3,-1):
    print("Number is :",i)
```

Number is : 10
Number is : 9
Number is : 8
Number is : 7
Number is : 6
Number is : 5
Number is : 4

In [4]:

```
#nested for Loop
for i in range(1,3):
    for j in range(1,6):
        print(j)
    print()
```

1
2
3
4
5

1
2
3
4
5

In [5]:

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

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

In [6]:

```
#nested for loop
for i in range(5):
    for j in range(i+1):
        print(j+1,end=" ")
    print()
```

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

In [7]:

```
#nested for loop
no = int(input("Enter Any Number:"))
for i in range(no):
    for j in range(i+1):
        print(j+1,end=" ")
    print()
```

Enter Any Number:6

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
1 2 3 4 5 6
```

In [10]:

```
#nested for loop
for i in range(5):
    val = 65
    for j in range(i+1):
        c1 = chr(val)
        #val = val+1 //comment
        val+=1
        print(c1,end=" ")
    print()
```

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

In [12]:

```
#factorial
no = int(input("Enter Any Number:"))
fact = 1
for i in range(5):
    fact = fact*(i+1)
print("Factorial is :",fact)
```

Enter Any Number:6
Factorial is : 120

In [13]:

```
#multiplication table
no = int(input("Enter Any Number:"))
for i in range(10):
    print(no,"*",i+1,"=",no*(i+1))
```

Enter Any Number:8
8 * 1 = 8
8 * 2 = 16
8 * 3 = 24
8 * 4 = 32
8 * 5 = 40
8 * 6 = 48
8 * 7 = 56
8 * 8 = 64
8 * 9 = 72
8 * 10 = 80

In [15]:

```
#nested for loop
for i in range(1,6):
    for j in range(1,6):
        if j%2==0:
            print("*",end=" ")
        else:
            print("#",end=" ")
    print()
```

```
# * # * #
# * # * #
# * # * #
# * # * #
# * # * #
```

In [16]:

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

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

In []: