loop for i = 2 started

loop for j = 1
loop for j = 2
loop for j = 3

```
In [22]: i loop count=2
         j_loop_count=3
         k loop count=4
         for i in range (1, i loop count+1):
             print("loop for i =", i, "started")
             for j in range(1, j_loop_count+1):
                 print("|", "\t loop for j =", j)
                 for k in range(1, k_loop_count+1):
                     print("|", "\t|", "\t\t""loop for k =", k)
             print()
         loop for i = 1 started
                  loop for j = 1
                                  loop for k = 1
                                 loop for k = 2
                                 loop for k = 3
                                 loop for k = 4
                  loop for j = 2
                                  loop for k = 1
                                 loop for k = 2
                                 loop for k = 3
                                 loop for k = 4
                  loop for j = 3
                                  loop for k = 1
                                 loop for k = 2
                                 loop for k = 3
                                 loop for k = 4
         loop for i = 2 started
                  loop for j = 1
                                  loop for k = 1
                                 loop for k = 2
                                 loop for k = 3
                                 loop for k = 4
                  loop for j = 2
                                  loop for k = 1
                                 loop for k = 2
                                 loop for k = 3
                                  loop for k = 4
                  loop for j = 3
                                  loop for k = 1
```

	loop for k = 2
ĺ	loop for $k = 3$
	loop for $k = 4$

~

```
In [24]: i loop count=4
         j_loop_count=3
         k_loop_count=2
         1 loop count=1
         for i in range (1, i_loop_count+1):
             print("loop for i =", i, "started")
             for j in range(1, j_loop_count+1):
                 print("|", "\t loop for j =", j)
                 for k in range(1, k_loop_count+1):
                     print("|", "\t\", "\t\t""loop for k =", k)
                     for 1 in range(1, 1_loop_count+1):
                          print("|", "\t|", "\t\t\t\t""loop for 1 =", 1)
             print()
         loop for i = 1 started
                  loop for j = 1
                                  loop for k = 1
                                                  loop for l = 1
                                  loop for k = 2
                                                  loop for l = 1
                  loop for j = 2
                                  loop for k = 1
                                                  loop for l = 1
                                  loop for k = 2
                                                  loop for l = 1
                  loop for j = 3
                                  loop for k = 1
                                                  loop for l = 1
                                  loop for k = 2
                                                  loop for l = 1
         loop for i = 2 started
                  loop for j = 1
                                  loop for k = 1
                                                  loop for l = 1
                                  loop for k = 2
                                                  loop for l = 1
```

loop for l = 1

loop for j = 2

loop for k = 1

loop for k = 2

```
loop for l = 1
         loop for j = 3
                        loop for k = 1
                                        loop for l = 1
                        loop for k = 2
                                        loop for l = 1
loop for i = 3 started
         loop for i = 1
                        loop for k = 1
                                        loop for l = 1
                        loop for k = 2
                                        loop for l = 1
         loop for j = 2
                        loop for k = 1
                                        loop for l = 1
                        loop for k = 2
                                        loop for l = 1
         loop for j = 3
                        loop for k = 1
                                        loop for l = 1
                        loop for k = 2
                                        loop for l = 1
loop for i = 4 started
         loop for j = 1
                        loop for k = 1
                                        loop for l = 1
                        loop for k = 2
                                        loop for l = 1
         loop for j = 2
                        loop for k = 1
                                        loop for l = 1
                        loop for k = 2
                                        loop for l = 1
         loop for j = 3
                        loop for k = 1
                                        loop for l = 1
                        loop for k = 2
                                        loop for l = 1
```

```
In [48]: iloop=int(input("i="))
          jloop=int(input("j="))
           for i in range(1, iloop+1):
               for j in range(1, jloop+1):
                    print(i, ",", j, end=" | ")
               print()
           i=5
           i=5
           1,1|1,2|1,3|1,4|1,5
          2 , 1 | 2 , 2 | 2 , 3 | 2 , 4 | 2 , 5 | 3 , 1 | 3 , 2 | 3 , 3 | 3 , 4 | 3 , 5 |
          4 , 1 | 4 , 2 | 4 , 3 | 4 , 4 | 4 , 5 | 5 , 1 | 5 , 2 | 5 , 3 | 5 , 4 | 5 , 5 |
In [49]: count=int(input("count="))
           for i in range(1, count+1):
               for j in range(1, i+1):
                    print(i, end=" ")
               print()
           count=5
           1
           2 2
```

3 3 3 4 4 4 4 5 5 5 5 5

```
In [77]: ilistolist=[[9, 5, 7], [0, 9, 5], [9, 7, 3], [9, 8, 1]]
         sum=0
         for x in ilistolist:
             print(x)
             for y in x:
                 print(y, end=", ")
                 sum+=v
             print()
             print(sum, end="")
             print()
         print()
         print("Sum of the elements =", sum)
         [9, 5, 7]
         9, 5, 7,
         21
         [0, 9, 5]
         0, 9, 5,
         35
         [9, 7, 3]
         9, 7, 3,
         54
         [9, 8, 1]
         9, 8, 1,
         72
         Sum of the elements = 72
In [79]: | ilistolist=[[9, 5, 7], [0, 9, 5], [9, 7, 3], [9, 8, 1]]
         sum=0
         for i in range(0, len(ilistolist)):
             for j in range(0, len(ilistolist[i])):
                 sum+=ilistolist[i][j]
         print("Sum of the elements =", sum)
```

Sum of the elements = 72

```
In [89]: ilist=[[9, 5, 7], [0, 9, 5], [9, 7, 3], [9, 8, 1]]
         sum=0
         print("ilist[0] =", ilist[0])
         print("ilist[0][1] =", ilist[0][1])
         print("ilist[3] =", ilist[3])
         print("ilist[3][2] =", ilist[3][2])
         ilist[0] = [9, 5, 7]
         ilist[0][1] = 5
         ilist[3] = [9, 8, 1]
         ilist[3][2] = 1
In [93]: ilist=[[9, 5, 7], [0, 9, 5], [9, 7, 3], [9, 8, 1]]
         sum=0
         print(ilist[0])
         index=len(ilist[2])-1
         print(ilist[2][len(ilist[2])-1])
         [9, 5, 7]
```