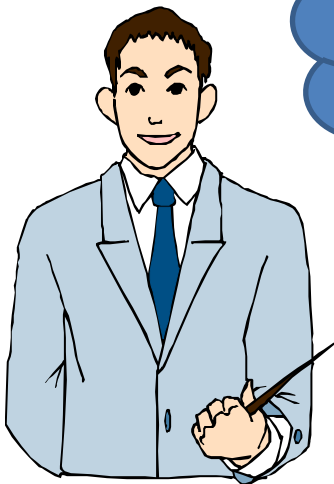
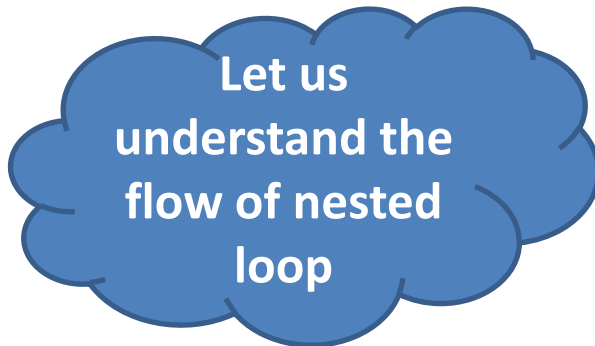


Nested Loop Working

```
for i in range(1,5):  
    for j in range(1,5):  
        print("value of i = ",i," j = ",j)
```

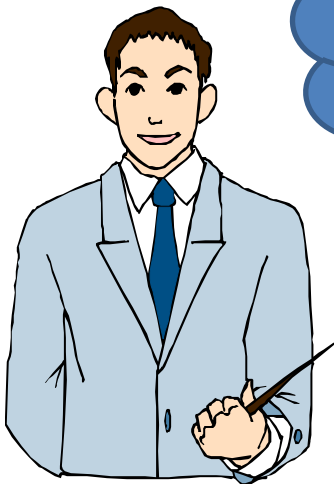
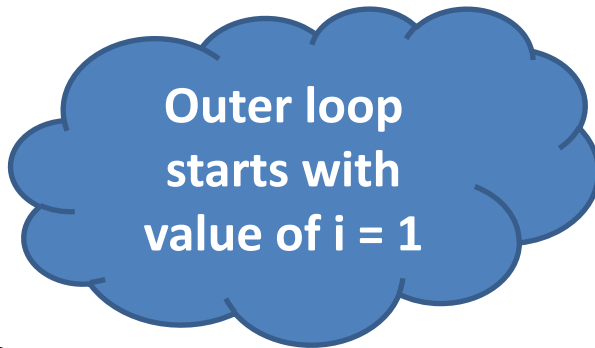
Nested Loop Working

```
for i in range(1,5):  
    for j in range(1,5):  
        print("value of i = ",i," j = ",j)
```



Nested Loop Working


```
for i in range(1,5):  
    for j in range(1,5):  
        print("value of i = ",i," j = ",j)
```



i	1								
j									

Nested Loop Working

```
for i in range(1,5):  
    for j in range(1,5):  
        print("value of i = ",i," j = ",j)
```



For i =1, inner
loop begins
from j = 1

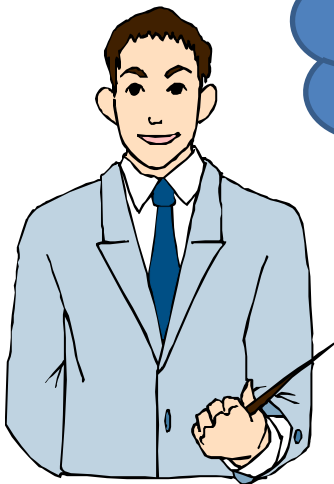
i	1								
j	1								

Nested Loop Working

```
for i in range(1,5):  
    for j in range(1,5):  
        print("value of i = ",i," j = ",j)
```

value of i=1 j = 1

Now value of i
and j will be
printed



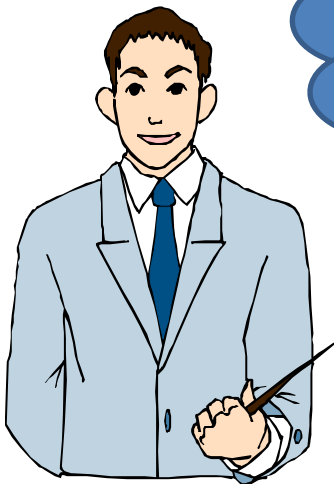
i	1								
j	1								

Nested Loop Working

```
for i in range(1,5):  
    for j in range(1,5):  
        print("value of i = ",i," j = ",j)
```

value of i=1 j = 1

As first inner must
complete for value of
i=1, therefore j will
increase



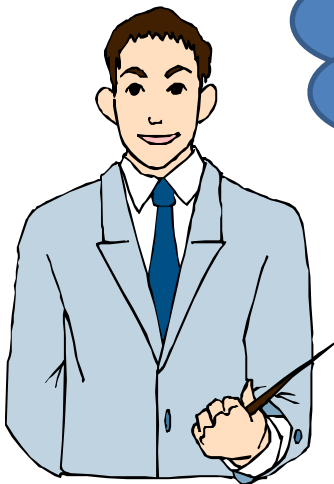
i	1	1							
j	1	2							

Nested Loop Working

```
for i in range(1,5):  
    for j in range(1,5):  
        print("value of i = ",i," j = ",j)
```

value of i=1 j = 1
value of i=1 j = 2

Value of i and j will
be printed



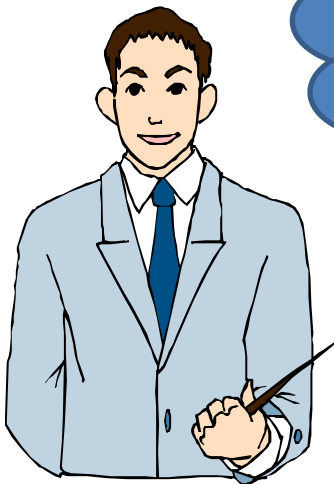
i	1	1							
j	1	2							

Nested Loop Working

```
for i in range(1,5):  
    for j in range(1,5):  
        print("value of i = ",i," j = ",j)
```

value of i=1 j = 1
value of i=1 j = 2

Now j will increase
to 3



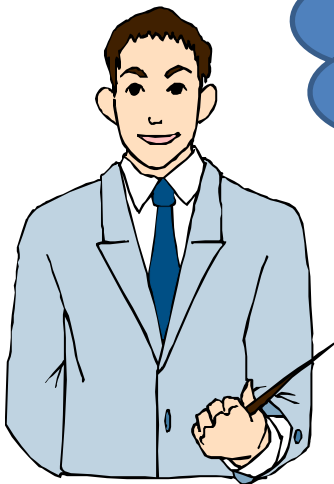
i	1	1	1						
j	1	2	3						

Nested Loop Working

```
for i in range(1,5):  
    for j in range(1,5):  
        print("value of i = ",i," j = ",j)
```

value of i=1 j = 1
value of i=1 j = 2
value of i=1 j = 3

Values of i and j will
be printed



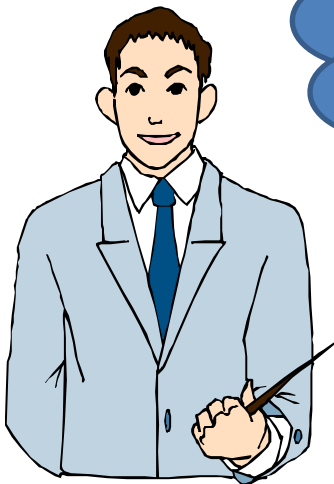
i	1	1	1						
j	1	2	3						

Nested Loop Working

```
for i in range(1,5):  
    for j in range(1,5):  
        print("value of i = ",i," j = ",j)
```

value of i=1 j = 1
value of i=1 j = 2
value of i=1 j = 3

Value of j will be
incremented



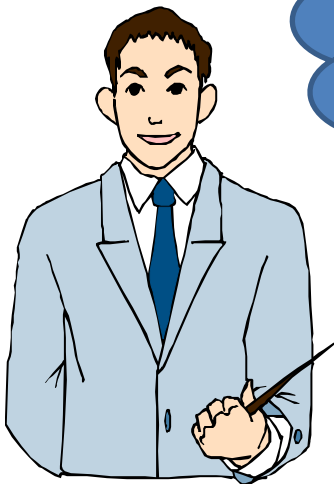
i	1	1	1	1					
j	1	2	3	4					

Nested Loop Working

```
for i in range(1,5):  
    for j in range(1,5):  
        print("value of i = ",i," j = ",j)
```

value of i=1 j = 1
value of i=1 j = 2
value of i=1 j = 3
value of i=1 j = 4

Value of i and j will
be printed



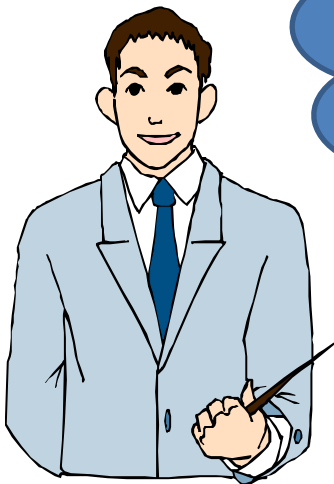
i	1	1	1	1					
j	1	2	3	4					

Nested Loop Working

```
for i in range(1,5):  
    for j in range(1,5):  
        print("value of i = ",i," j = ",j)
```

value of i=1 j = 1
value of i=1 j = 2
value of i=1 j = 3
value of i=1 j = 4

Now the value of j
reached to 4 which is the
last value in sequence so
loop will end and control
moves to outer loop



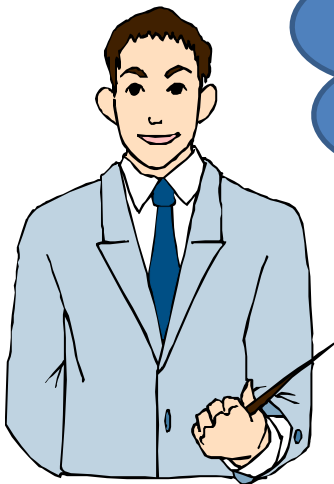
i	1	1	1	1					
j	1	2	3	4					

Nested Loop Working

```
for i in range(1,5):  
    for j in range(1,5):  
        print("value of i = ",i," j = ",j)
```

value of i=1 j = 1
value of i=1 j = 2
value of i=1 j = 3
value of i=1 j = 4

Value of i will be
incremented i.e. 2



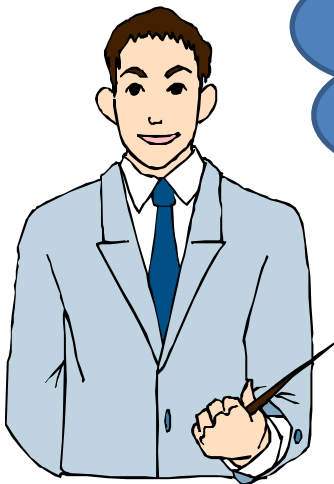
i	1	1	1	1	2				
j	1	2	3	4					

Nested Loop Working

```
for i in range(1,5):  
    for j in range(1,5):  
        print("value of i = ",i," j = ",j)
```

value of i=1 j = 1
value of i=1 j = 2
value of i=1 j = 3
value of i=1 j = 4

Now inner loop again
starts from 1 so j =1



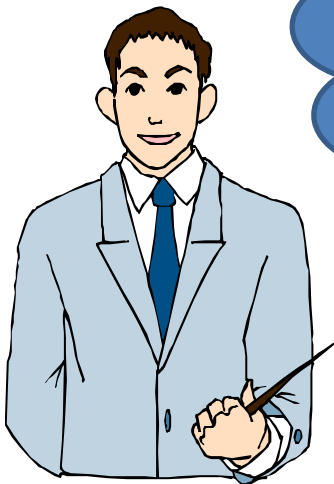
i	1	1	1	1	2				
j	1	2	3	4	1				

Nested Loop Working

```
for i in range(1,5):  
    for j in range(1,5):  
        print("value of i = ",i," j = ",j)
```

value of i=1 j = 1
value of i=1 j = 2
value of i=1 j = 3
value of i=1 j = 4
value of i=2 j = 1

Value of i and j will be
printed



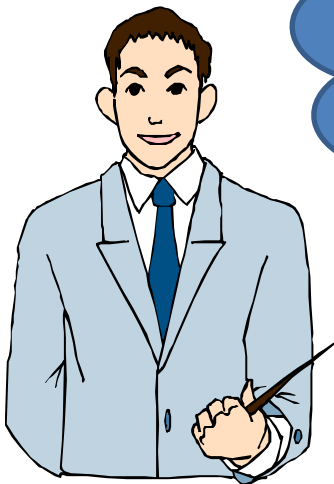
i	1	1	1	1	2				
j	1	2	3	4	1				

Nested Loop Working

```
for i in range(1,5):  
    for j in range(1,5):  
        print("value of i = ",i," j = ",j)
```

value of i=1 j = 1
value of i=1 j = 2
value of i=1 j = 3
value of i=1 j = 4
value of i=2 j = 1
value of i=2 j = 2
value of i=2 j = 3
value of i=2 j = 4

In the same way j will be incremented from 2 to 4



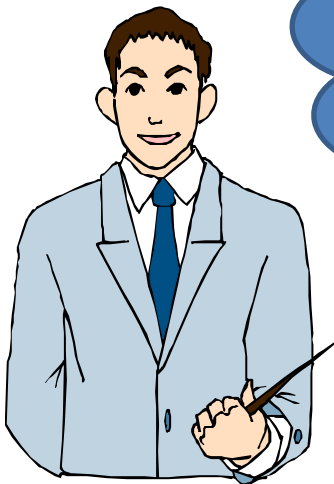
i	1	1	1	1	2	2	2	2	
j	1	2	3	4	1	2	3	4	

Nested Loop Working

```
for i in range(1,5):  
    for j in range(1,5):  
        print("value of i = ",i," j = ",j)
```

value of i=1 j = 1
value of i=1 j = 2
value of i=1 j = 3
value of i=1 j = 4
value of i=2 j = 1
value of i=2 j = 2
value of i=2 j = 3
value of i=2 j = 4

Now, after inner loop is
over outer loop will
resume from i=3, and so
on



i	1	1	1	1	2	2	2	2	
j	1	2	3	4	1	2	3	4	

Nested Loop Working

```
for i in range(1,5):
    for j in range(1,5):
        print("value of i = ",i," j = ",j)
```

value of i=1 j = 1
 value of i=1 j = 2
 value of i=1 j = 3
 value of i=1 j = 4
 value of i=2 j = 1
 value of i=2 j = 2
 value of i=2 j = 3
 value of i=2 j = 4
 value of i=3 j = 1
 value of i=3 j = 2
 value of i=3 j = 3
 value of i=3 j = 4
 value of i=4 j = 1
 value of i=4 j = 2
 value of i=4 j = 3
 value of i=4 j = 4

Final output will be

i	1	1	1	1	2	2	2	2	-
j	1	2	3	4	1	2	3	4	-