## Nested for Loop

In Nested loop of for there is another loop of for.

### Syntax
```
for (initialization; Condition; incr/dec)
{
    for (initialization; Condition; incr/decr)
    {
        Statements 1
        Statements 2
                :
        Statements n
    }
}  Statement;
```

In this program goes to first for loop and then goes to its body where it encounters with Second i.e. Nested Loop and executes its Statements.

This process goes until first loop condition is not true.

Eg

```
for( int i=0;  i<=2; i++)
{  for( int j=2; j>=0; j--)
   { Printf(" value of i=%d and j=%d \n", i,j);
   }
   Printf(" End of Loop stage %d\n" i );
}
getch();
}
```

Output :-

Value of i=0 and j=2
Value of i=0 and j=1
Value of i=0 and J=0
End of Loop Stage 0
Value of i=1 and j=2
Value of i=1 and j=1
Value of i=1 and j=0
End of loop stage 1
Value of i=2 and j=2
Value of i=2 and j=1

Value of i=2 and j=0
End of loop Stage 2