

C Language

Chapter # 12

Loop Constructs

Lecture: 44

Today's Lecture

- ▶ Nested Loop and its working with example.

Nested loop:

- ▶ A loop within a loop is called nested loop.
- ▶ In nested loops, the inner loop is executed completely with each change in the value of counter variable of outer loop.
- ▶ Any loop can be used as inner loop of another loop. For example, while loop can be used as outer loop and for loop can be used as inner loop in nested loop.

Nested loop:

- ▶ Outer loop creates Rows
- ▶ Inner loop creates Columns

Nested loop

Syntax:

```
for(initialization; condition; Increment/Decrement)
{
    for(initialization; condition; Increment/Decrement)
    {
        Statement 1;
        Statement 2;
        Statement 3;
    }
}
```

Example

```
#include<stdio.h>
#include<conio.h>
main()
{
    int n, m;
    for(n=1; n<=5; n++)
    {
        for(m=1; m<=5; m++)
        {
            printf("*");
        }
        printf("\n");
    }
}
```



The End

Read this topic from your books and ask question if any confusion.

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