

C Language

Chapter # 11

Decision Constructs

Lecture: 28

Today's Lecture

- ▶ “if else-if” Statement

“if else-if” statement

- ▶ if else-if statement can be used to choose one block of statements from many blocks of statements.
- ▶ It is used when there are many options and only one block of statements should be executed on the basis of a condition.

Working of “if else-if”

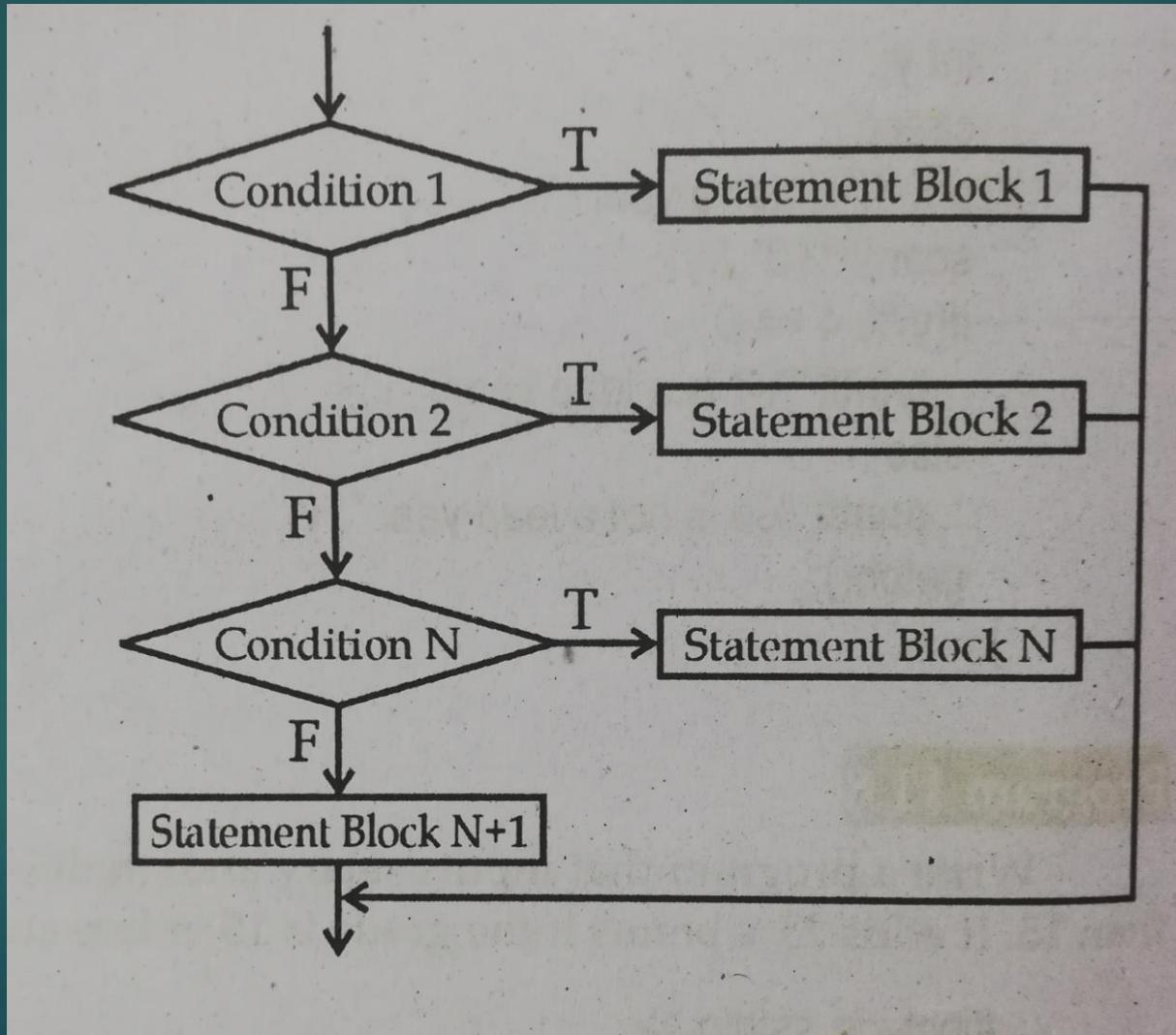
- ▶ The test condition in if else statement with multiple alternatives are executed in a sequence until a true condition is reached.
- ▶ If a condition is true, the block of statements following the condition is executed. The remaining blocks are skipped.
- ▶ If a condition is false, the block of statements following the condition is skipped.
- ▶ The statement after the last else are executed if all conditions are false.

“if else-if” statement

Syntax:

```
If(condition)
{
    Block 1;
}
else-if(condition)
{
    Block 2;
}
else-if(condition)
{
    Block 3;
}
else
{
    Block N;
}
```

Flowchart (“if else-if” statement)



Example

Write a program that inputs a number from user and determines whether it is positive, negative or zero.

```
#include <stdio.h>
#include<conio.h>
main()
{
    int n;
    printf("Enter a number: ");
    scanf("%d", &n);
    if(n > 0)
        printf("Number is positive");
    else if(n < 0)
        printf("Number is negative");
    else
        printf("Number is zero");
}
```



The End

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

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