

Topic : The Nested if-else Statement

Syntax:

```
if (Expression)
{
    if (Expression)
    {
        .....
        ..... Statements;
        .....
    }
    else
    {
        .....
        ..... Statements;
        .....
    }
}
else
{
    .....
    ..... Statements;
    .....
}
```

When one or more if-else statement lies within another if-else statement that is called Nested if-else statement. This structure gives the facility to check multiple conditions. The working rule of this structure is that, if the outer if expression or condition is true then control goes to the inner if statement. Now, if the inner if expression or condition is true then statements of their body will be executed otherwise control goes to the inner else statement and executes their codes. If the outer if expression or condition is false then control goes to the outer else statement and executes their codes.

/* Write a C program to find the greater number amongst three given numbers by using nested if-else statement. */

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a,b,c;
    clrscr();
    printf("Enter three Numbers:");
    scanf("%d%d%d", &a,&b,&c);
    if ( a>b )
    {
        if(a>c)
        {
            printf("The Greater Number = %d", a);
        }
        else
        {
            printf("The Greater Number = %d", c);
        }
    }
    else
    {
        if(b>c)
        {
            printf("The Greater Number = %d", b);
        }
        else
        {
            printf("The Greater Number = %d", c)
        }
    }
    getch();
}
```