CSE 1112

Title: Nested if else in C.

Objective:

The main object of this lab is to

Learn about how to nested if statement correctly.

Theory:

When an if else statement is present inside the body of another "if" or "else" then this is called nested if else. The if statement allows to check for a condition and branch to different parts of the code, depending on the result or the conditions including relational and logical operator. A nested if statement is an if statement placed inside another if statement. Nested if statements can be used to test a combination of conditions before deciding on the proper action. As like if-else statements executes the command based on Boolean expression 0 and 1, nested if statements are also executed based on Boolean expression.
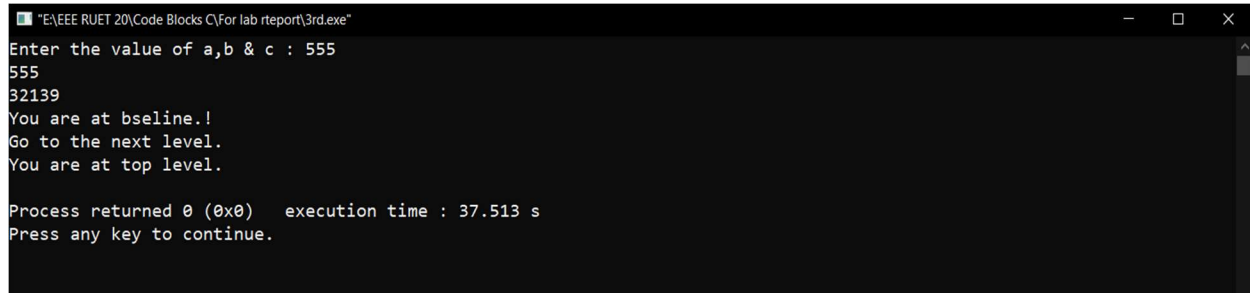
Syntax of Nested if else statement:

```
if(condition) {
   //Nested if else inside the body of "if"
   if(condition2) {
     //Statements inside the body of nested "if"
   }
   else {
     //Statements inside the body of nested "else"
   }
}
else {
   //Statements inside the body of "else"
}
```

Source Code:

```
1. /// Display results on various conditions using nested if
   statement.
2.
3. #include<stdio.h>
4.
5. int main()
6. {
7.     int a,b,c;
8.
9.     printf("Enter the value of a,b & c : ");
10.         scanf("%d %d %d",&a, &b,&c);
11.
12.         if (a>=100)
13.         {
14.             printf("You are at bseline.!\n");
15.             if (a==b || b%5==0)
16.             {
17.                 printf("Go to the next level.\n");
18.                 if (c>999)
19.                 {
20.                     printf("You are at top level.\n");
21.                 }
22.             }
23.         }
24.
25.         else
26.             printf("Try again\n");
27.     }
```

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Output:

```
"E:\EEE RUET 20\Code Blocks C\For lab rteport\3rd.exe"                    —    □    ×
Enter the value of a,b & c : 555
555
32139
You are at bseline.!
Go to the next level.
You are at top level.

Process returned 0 (0x0)    execution time : 37.513 s
Press any key to continue.
```

Discussion and Conclusion:

In this program, I work on how to use nested if statement in C. I display different types of statement depends on what type of vales are being inputs by the user. It takes inputs from the user and display those statement that are preset in that program.