Hello CPPBudddies

Day 07

Welcome

To

C++ COMPLETE BOOTCAMP

Your Guide To A Solid Foundataion in C++

Let us begin

What is the bug?

```
#include <iostream>
using namespace std;
int main(){
   int a = 15, b = 20;
   if (b > a) {
         cout << "b is greater" << endl;
   } else {
     cout << "a is greater" << endl;
   }
}
```

Need of **else if** block

The if...else statement executes two different codes depending upon whether the test expression is true or false.
Sometimes, a choice has to be made from **more than 2 possibilities.**

```
if (test expression1) {
    // statement(s)
}
else if(test expression2) {
    // statement(s)
}
else if (test expression3) {
    // statement(s)
}
.
.
else {
    // statement(s)
}
```

When ?

The if...else ladder allows you to check between multiple test expressions and execute different statements.

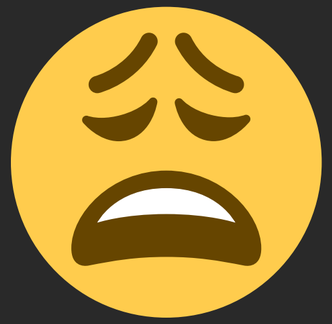
```c
// Program to relate two integers using =, > or < symbol

#include <stdio.h>
int main() {
    int number1, number2;
    printf("Enter two integers: ");
    scanf("%d %d", &number1, &number2);

    //checks if the two integers are equal.
    if(number1 == number2) {
        printf("Result: %d = %d",number1,number2);
    }

    //checks if number1 is greater than number2.
    else if (number1 > number2) {
        printf("Result: %d > %d", number1, number2);
    }

    //checks if both test expressions are false
    else {
        printf("Result: %d < %d",number1, number2);
    }

    return 0;
}
```

DEMO

My Grade Calculator

Write a C++ program to input marks of five subjects
Physics, Chemistry, Biology, Mathematics and Computer.

Calculate percentage and grade
according to following:



Percentage >= 90% : Grade A
Percentage >= 80% : Grade B
Percentage >= 70% : Grade C
Percentage >= 60% : Grade D
Percentage >= 40% : Grade E
Percentage < 40% : Grade F

Maximum of 3

Basic C programming, Relational operators, Logical operators, If else

Logic Behind This

- num1 is maximum if num1 > num2 and num1 > num3.
- num2 is maximum if num2 > num1 and num2 > num3.
- num3 is maximum if num3 > num1 and num3 > num2.

Example

Input

Input num1: 10

Input num2: 20

Input num3: 15

Output

Maximum is: 20

Leap Year Problem

If year is exactly divisible by 400 then it is leap year.

OR

If year is exactly divisible by 4 and not divisible by 100, then it is leap year.

```
if(((year % 4 == 0) && (year % 100 !=0)) || (year % 400==0))
```

DEMO

🙏 THANK YOU 🙏

keep calm,
wear mask,
and
study hard

ISSUED IN PUBLIC INTEREST

whoami

AKASH MAJI

Your Mentor