Expt 5 - C++ decision making statements By:23070123112

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Aim: To study and implement C++ decision making statements

Theory:

Sr.No	Statement & Description
1	<u>if statement</u>
	An 'if' statement consists of a boolean expression followed by one or more statements.
2	ifelse statement
	An 'if' statement can be followed by an optional 'else' statement, which executes when the boolean expression is false.
3	switch statement
	A 'switch' statement allows a variable to be tested for equality against a list of values.
4	nested if statements
	You can use one 'if' or 'else if' statement inside another 'if' or 'else if' statement(s).
5	nested switch statements
	You can use one 'switch' statement inside another 'switch' statement(s).

1:if ,else, else if statement IN THE FOLLOWING I USED IF ELSE STATEMENTS TO DTERMINE WHICH OF THE NUMBERS AMONG A AND B ARE LESER OR GREATER OR EQUAL TO A

```
| # includeciostream>
| a princludeciostream>
| a prin
```

2: nested if statements

3.break
BREAK STATEMENTS USING MONTH CODES AND USING SWITCH
CASE TO CHOOSE NUMBER FROM 1 TO 12

```
The contract of the contract o
```

4.default

USING DEFAULT TO PROVE A CASE FOR POSITIVE AN D BNEGATIVE STATEMENTS

5.CALCULATOR

```
C++ month.cpp 1 C++ calculator.cpp X C++ bytes.cpp
   • calculator.cpp > ...
1 //name:sai sankar jena
2 //23070123112
   3 //entc b2
4 #include <iostream>
5 using namespace std;
              cin >> op;
cout << "Enter two numbers: ";</pre>
              cin >> num1 >> num2;
switch (op) {
                       cout << "Result: " << num1 + num2;
                       cout << "Result: " << num1 * num2;
break;
                    case '/':

if (num2 != 0) {

cout << "Result: " << num1 / num2;
} else {
                    default:
    cout << "Error: Invalid.";</pre>
  PROBLEMS (1) OUTPUT DEBUG CONSOLE TERMINAL PORTS
 calculator.cpp:12:5: error: 'cin' was not declared in this scope
    cin >> op;
PS C:\Users\asus\Desktop\cds> cd "c:\Users\asus\Desktop\cds\" ; if ($?) { g++ calculator.cpp -o calculator } ; if ($?) { .\calculator } 
Enter operator (+, -, *, /): *
Enter two numbers: 5
Result: 30
PS C:\Users\asus\Desktop\cds> []
CODES:
```























calculator.cpp