

## IF-ELSE STATEMENT

@OrbitGNX

CONDITIONAL STATEMENT







#### TOPIC OUTLINE

if Conditional Statement

if-else Conditional Statement

Cascading if-else Conditional Statement

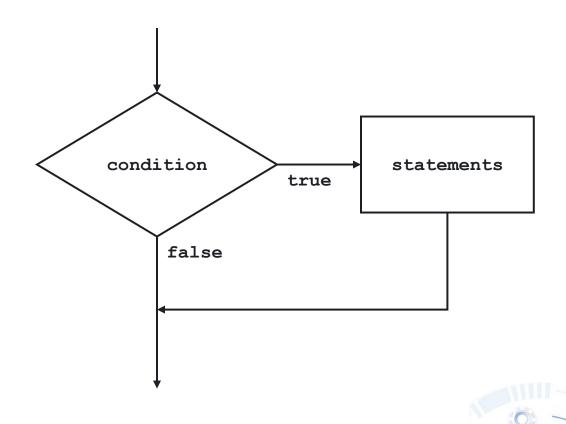


## **IF STATEMENT**



#### **IF STATEMENT**

The <u>if</u> statement is a fundamental control flow statement that allows you to execute a block of code <u>conditionally</u> based on whether a specified condition evaluates to <u>true</u> or <u>false</u>.

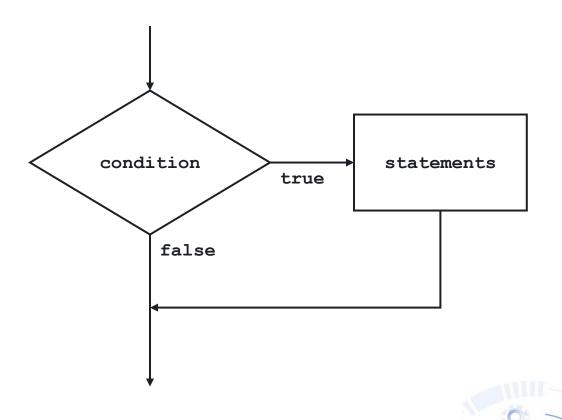


#### **IF STATEMENT**

```
Syntax of the if statement:

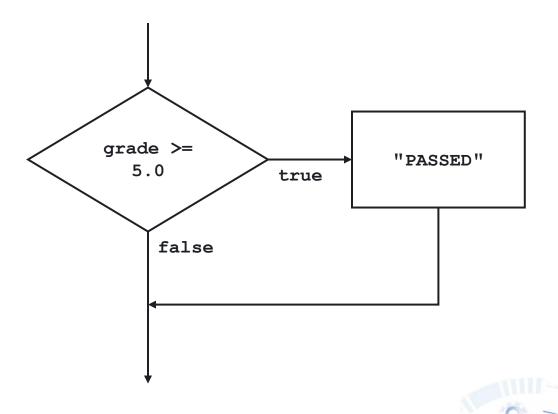
if (condition) {

   // code if the condition is true
```



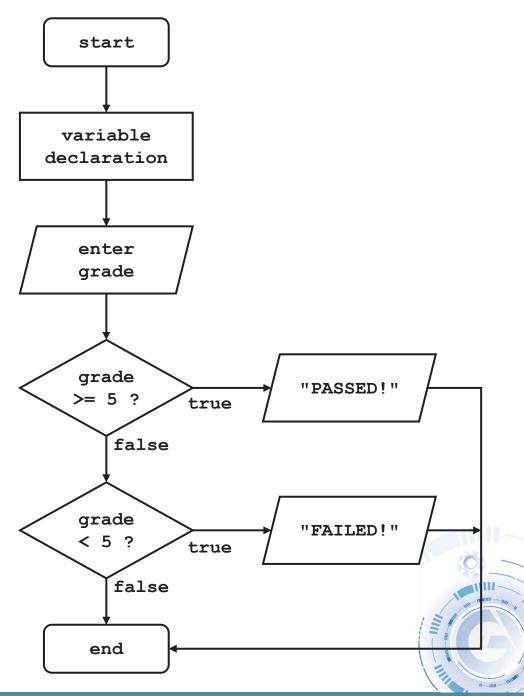
#### **EXERCISE**

```
if(grade >= 5.0 ) {
    cout << "PASSED!";
}</pre>
```



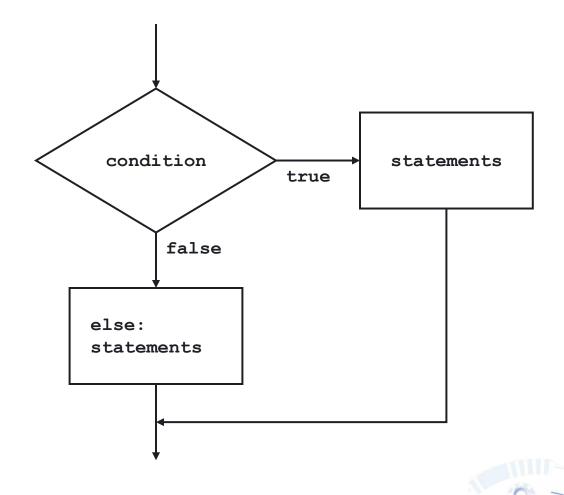
#### **EXERCSISE**

```
float grade = 0.0;
// enter grade
cin >> grade;
// evaluate grade
if (grade >= 5.0 ){
   cout << "PASSED!";</pre>
if (grade < 5.0) {
   cout << "FAILED!";</pre>
```



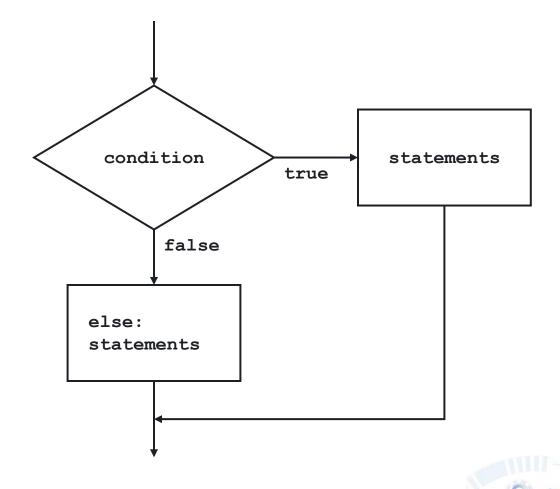
#### IF-ELSE STATEMENT

The <u>if-else</u> statement extends the **if** statement by providing an alternative block of code to execute if the condition is **false**.



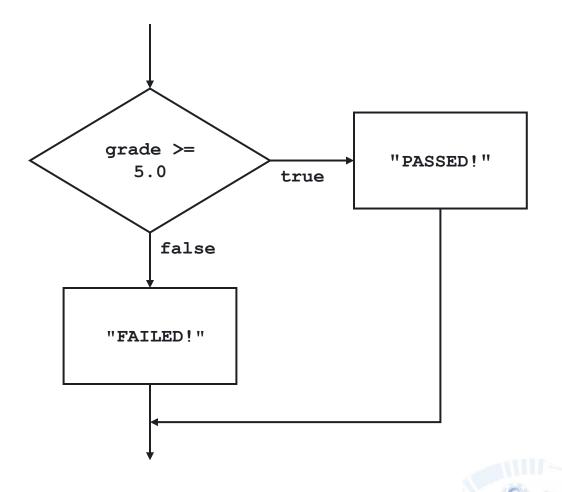
#### IF-ELSE STATEMENT

```
Syntax of the if-else statement:
if(condition) {
    // code if the condition is true
}
else{
    // code if the condition is
    false
}
```



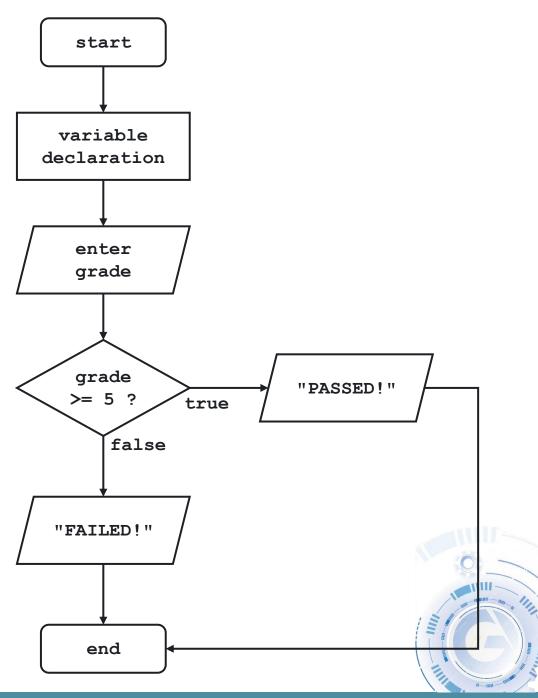
#### **EXERCISE**

```
if(grade >= 5.0 ) {
    cout << "PASSED!";
}
else{
    cout << "FAILED!";
}</pre>
```



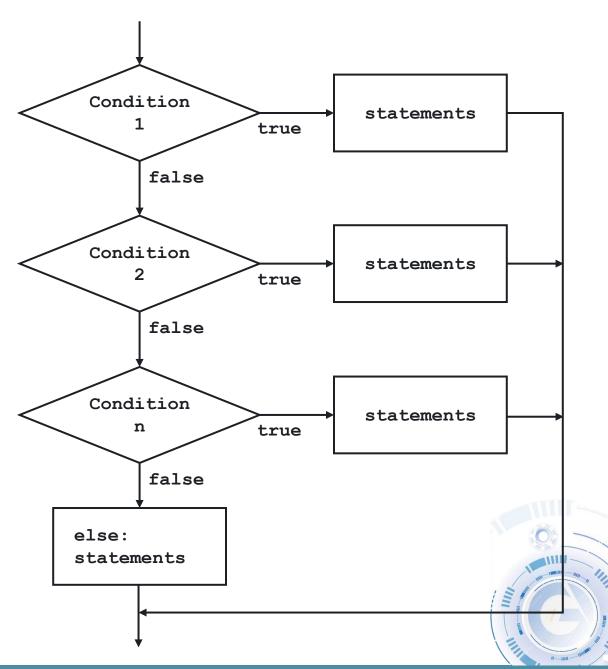
#### **EXERCSISE**

```
float grade = 0.0;
// enter grade
cin >> grade;
// evaluate grade
if (grade >= 5.0 ){
   cout << "PASSED!";</pre>
} else{
   cout << "FAILED!";</pre>
```



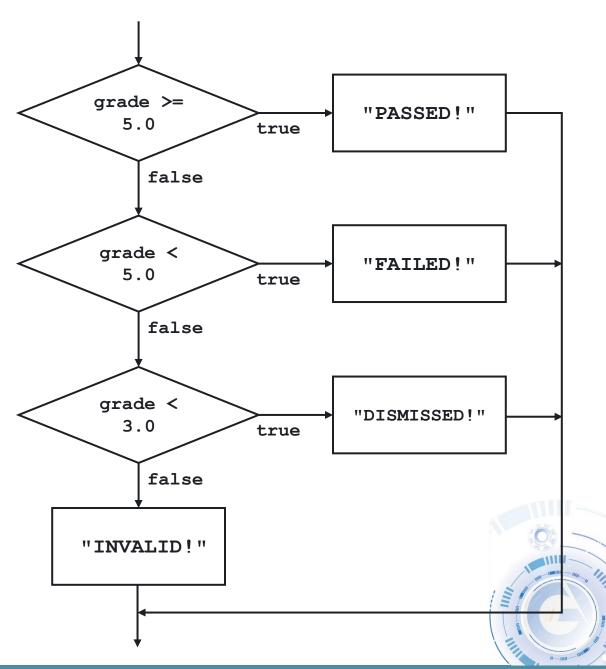
# CASCADING IF-ELSE STATEMENT

```
Syntax of the cascading if-else statement:
if(condition 1){
   // if the condition 1 is true
else if(condition 2){
   // if the condition 2 is true
else{
   // if condition 1 and 2 are false
```



#### **EXERCSISE**

```
if(grade >= 5.0){
   cout << "PASSED!";</pre>
} else if(grade < 5.0){</pre>
   cout << "FAILED!";</pre>
} else if (grade < 3.0) {</pre>
   cout << "DISMISSED!";</pre>
} else {
   cout << "INVALID!";</pre>
```



### **LABORATORY**

