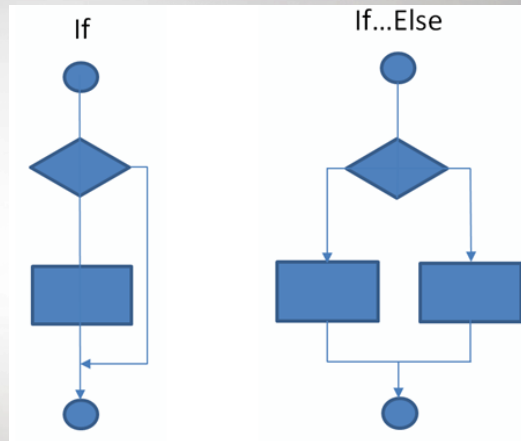


# Java

if  
else if  
else



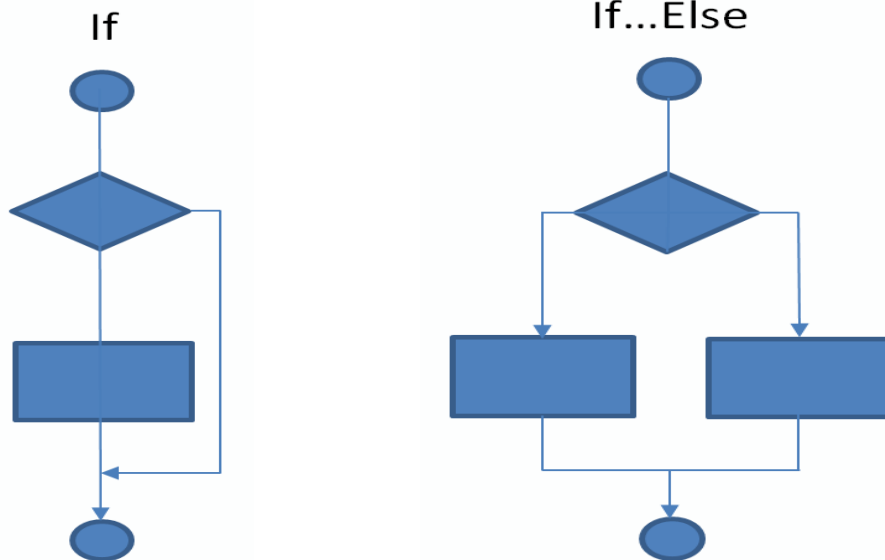
Dan McElroy



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Sept 2018

## The if Statement



## if / else

A simple if statement

```
if (score >= 90)
    cout << "Great work !" << endl;
```

A simple if/else statement

```
if (score >= 90)
    cout << "Great work !" << endl;
else
    cout << "Work harder." << endl;
```

## if / else

A simple if statement

```
if (score >= 90)
    cout << "Great work !" << endl;
```

A simple if/else statement

```
if (score >= 90)
    cout << "Great work !" << endl;
else
    cout << "Work harder." << endl;
```

No Semi-colon here

## if / else if / else if / else

```
if (score >= 90)
    cout << "Grade is A" << endl;
else if (score >= 80)
    cout << "Grade is B" << endl;
else if (score >= 70)
    cout << "Grade is C" << endl;
else if (score >= 60)
    cout << "Grade is D" << endl;
else
    cout << "Grade is F" << endl;
```

## if / else if / else if / else

```
if (score >= 90)
    cout << "Grade is A" << endl;
else if (score >= 80)
    cout << "Grade is B" << endl;
else if (score >= 70)
    cout << "Grade is B" << endl;
else if (score >= 60)
    cout << "Grade is D" << endl;
else
    cout << "Grade is F" << endl;
```

Default condition

## if / else if / else if / else

```
if (score >= 90)
    cout << "Grade is A" << endl;
else if (score >= 80)
    cout << "Grade is B" << endl;
else if (score >= 70)
    cout << "Grade is B" << endl;
else if (score >= 60)
    cout << "Grade is D" << endl;
else
    cout << "Grade is F" << endl;
```

No Semi-colon here

## Compound if

A compound if statement can have a block of code attached to the **if** statement by using the open and close curly braces { } .

```
if (score >= 90)
{
    cout << "Great work !" << endl;
    cout << "Your grade is an A" << endl;
}
```

The curly braces can even be used if there is only one statement attached to the **if**.

No Semi-colon here

## Compound if / else

```
if (score >= 70)
{
    cout << "Good work." << endl;
    cout << "You passed." << endl;
}
else
{
    cout << "Try harder." << endl;
    cout << "You can do it." << endl;
}
```

## Programming Style

The opening curly brace can be on the same line as the `if`

```
if (time >= 2)
{
    cout << "Takes too long." << endl;
    cout << "Get some help." << endl;
}
```

----- or -----

```
if (time >= 2) {
    cout << "Takes too long." << endl;
    cout << "Get some help." << endl;
}
```