# Introduction to Programming Class 7, 23 January 2017

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Introduction to Programming Class 7, 23 January 2017

#### Goals

Goal 1: You will understand how computers make decisions.

Goal 2: You will know how to implement an if-statement in JavaScript.

#### Vocabulary

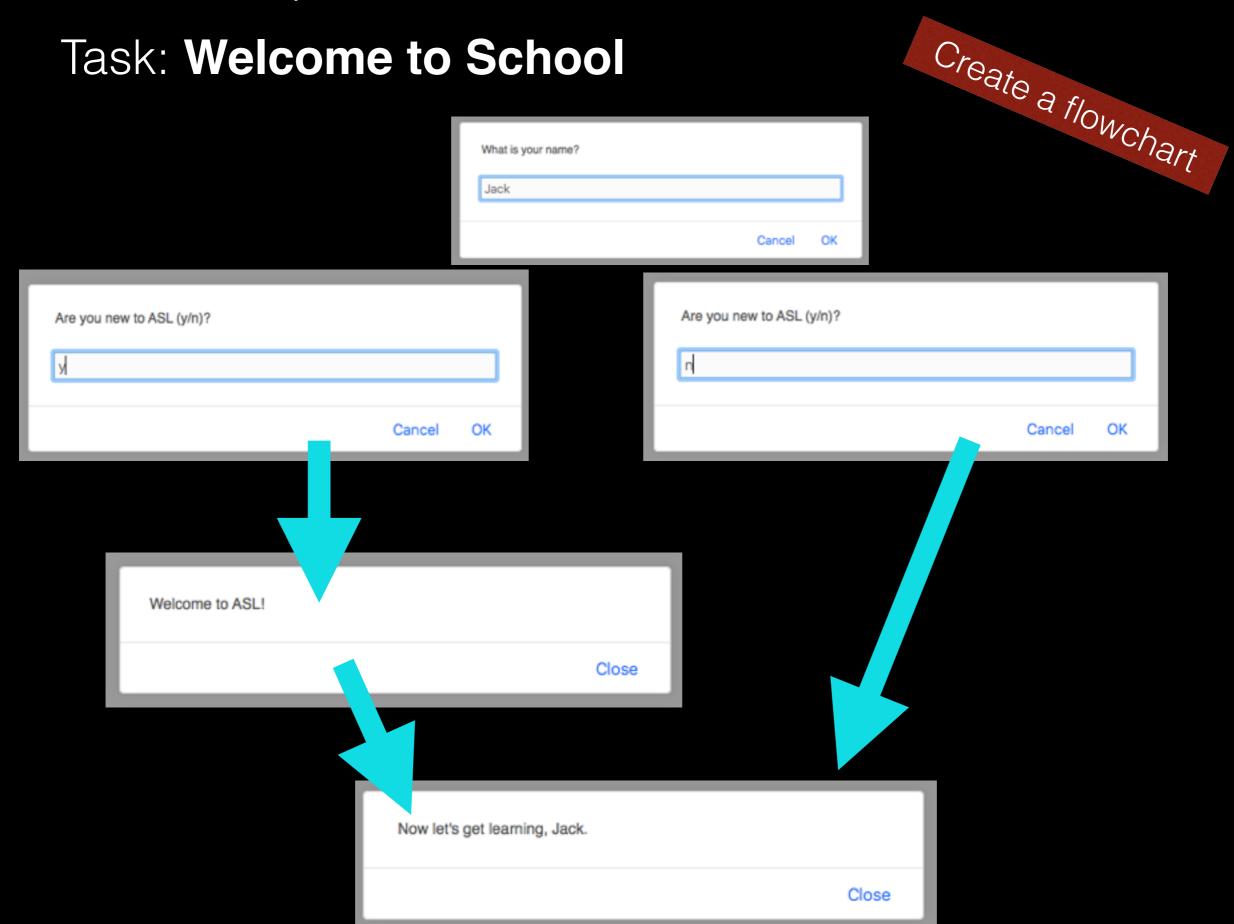
Selection
If-statement
Code block

#### Code

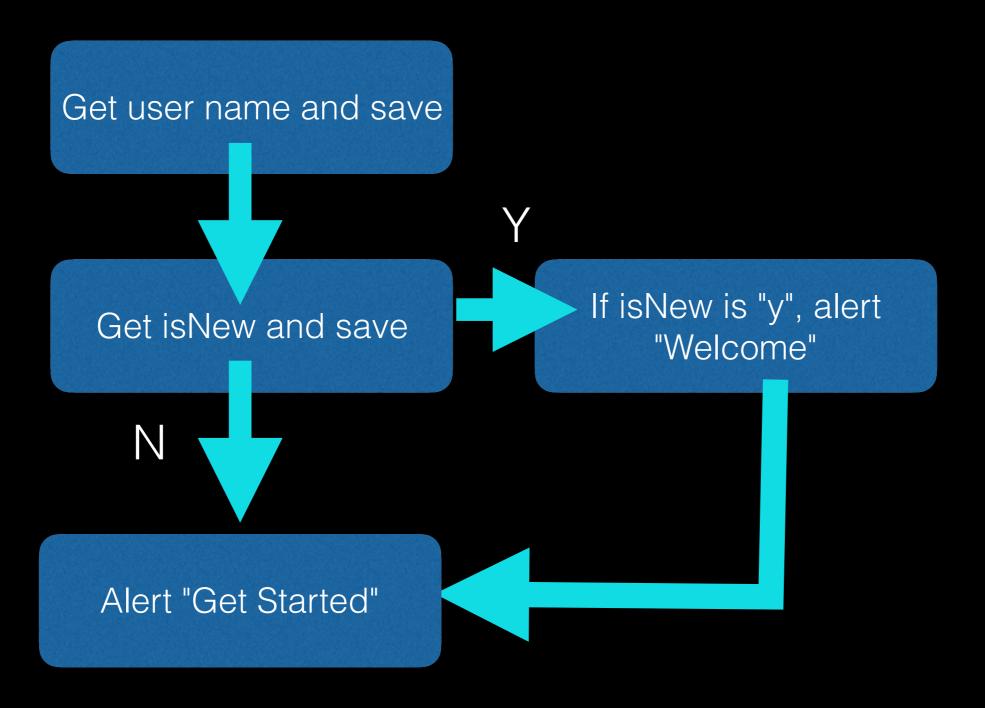
```
if () {}
string.toLowerCase()
+=
==
```

#### **Practice Assessment**

- Complete Task12-SimpleInterest (Haiku)
- Turn in to Google Drive
- Begin Code Academy (Haiku Link)

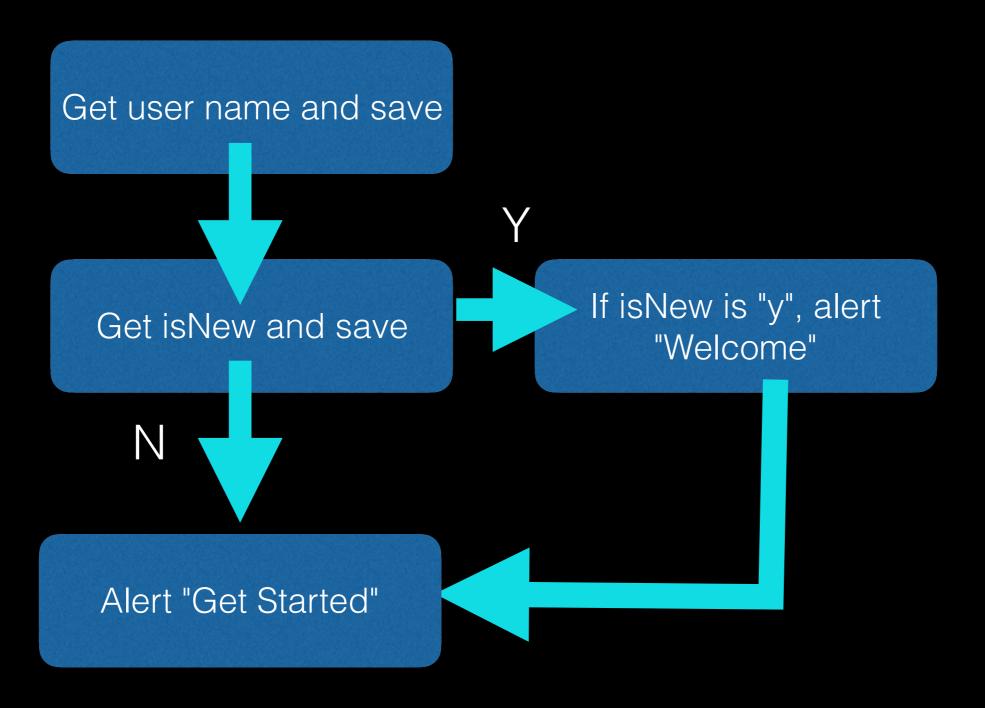






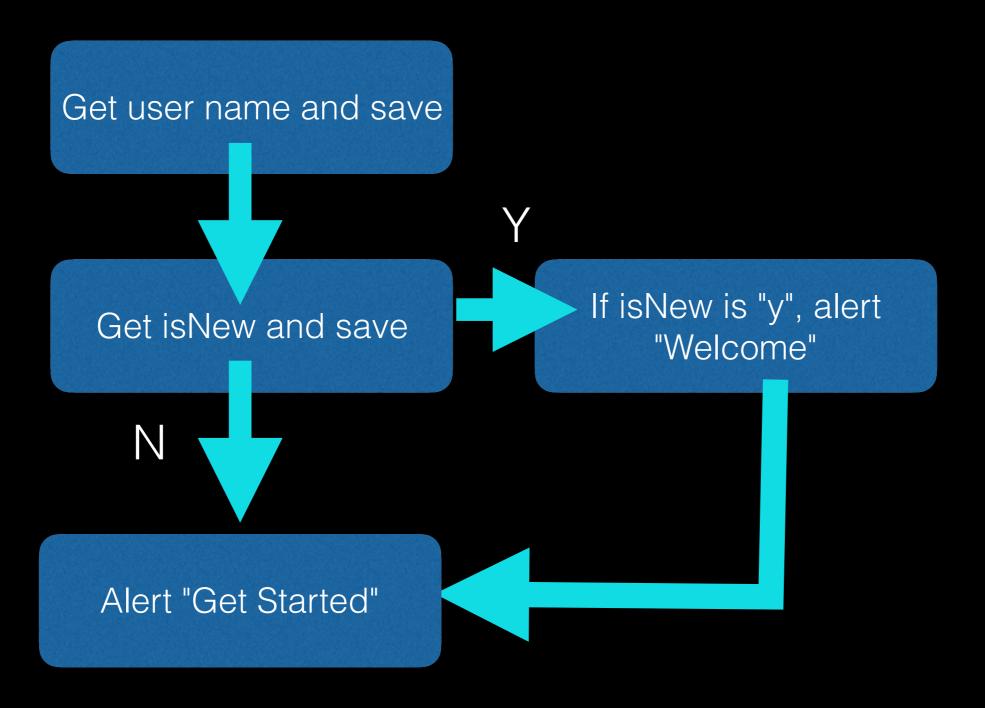
Get user name and save

```
var name = prompt("What is your name");
```



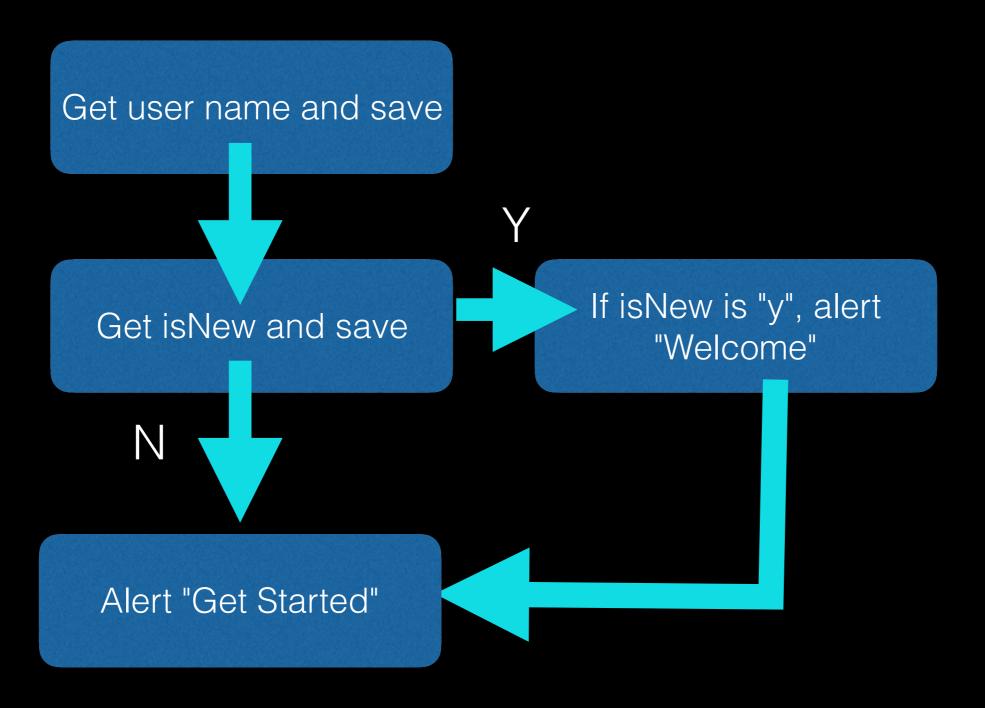
Get isNew and save

```
var isNew = prompt("Are you new to ASL?");
```



Alert "Get Started"

```
var message = "Let's get learning, " + name + ".";
alert(message);
```



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Task: Welcome to School

If isNew is "y", alert "Welcome"

if isNew is "y" then alert "Welcome"

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Task: Welcome to School

If isNew is "y", alert "Welcome"

if isNew is "y" then alert "Welcome"

If isNew is "y", alert "Welcome"

if isNew is "y" then

```
alert("Welcome to ASL!");
```

If isNew is "y", alert "Welcome"

if isNew is "y" then

alert("Welcome to ASL!");

```
If isNew is "y", alert "Welcome"
```

```
isNew is "y" then

()
alert("Welcome to ASL!");
```

```
If isNew is "y", alert "Welcome"
```

```
isNew is "y" then
if ()
    alert("Welcome to ASL!");
```

```
then
```

```
if (isNew == "y")
    alert("Welcome to ASL!");
```

If isNew is "y", alert "Welcome"

then

```
if (isNew == "y")
    alert("Welcome to ASL!");
```

```
if (isNew == "y"){
    alert("Welcome to ASL!");
}
```

```
if (isNew == "y"){
    alert("Welcome to ASL!");
}
```

```
Conditional a.k.a. if-statement
```

```
if (isNew == "y"){
    alert("Welcome to ASL!");
}
```

```
If isNew is "y", alert
    "Welcome"

The condition

if (isNew == "y") {
    alert("Welcome to ASL!");
}
```

If isNew is "y", alert "Welcome"

```
NOTE: Indented four spaces!
```

```
if (isNew == "y"){
    alert("Welcome to ASL!");
}
```

NOTE: No semicolon

A code block.

Everything between { }

# A code block: Everything between { }

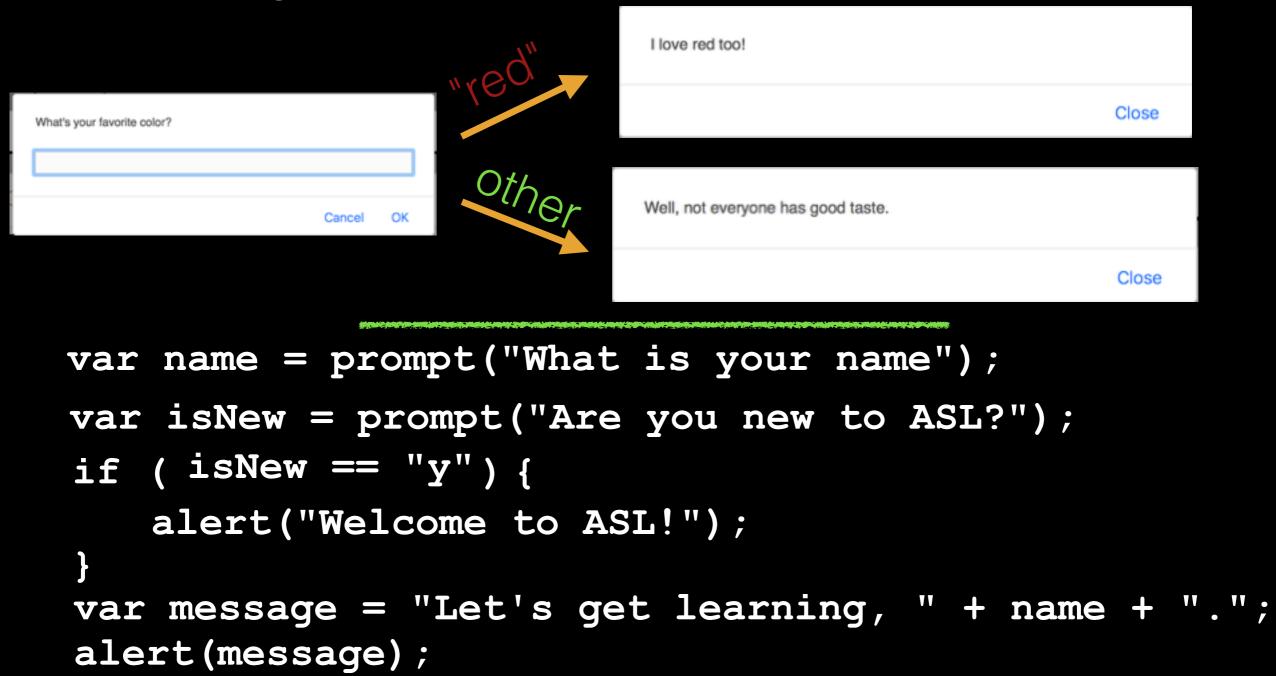
- A code block is a section of code that is grouped together.
- A code block is denoted by curly braces {}.
- The first curly brace is in-line.
- All lines in a code block are indented by 2, 4, or 8 spaces.

```
A code block: Everything between { }
if(name == "Jack") {
    code block
for(var i=0; i<10; i++) {
    code block
function growLarge() {
    code block
```

```
var name = prompt("What is your name");
var isNew = prompt("Are you new to ASL?");

if (isNew == "y") {
    alert("Welcome to ASL!");
}
var message = "Let's get learning, " + name + ".";
alert(message);
```

# Task: What's your favorite color?



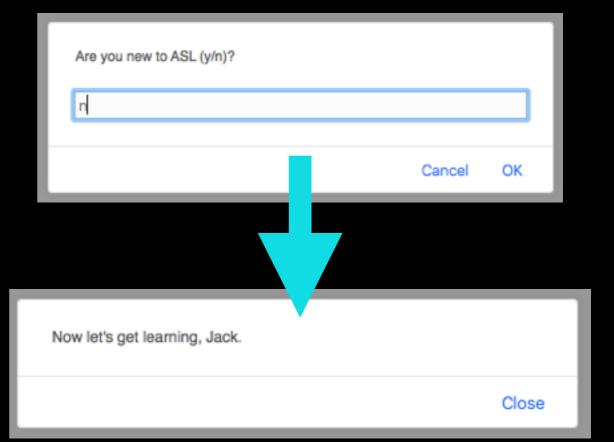
# Task: Welcome to School Again

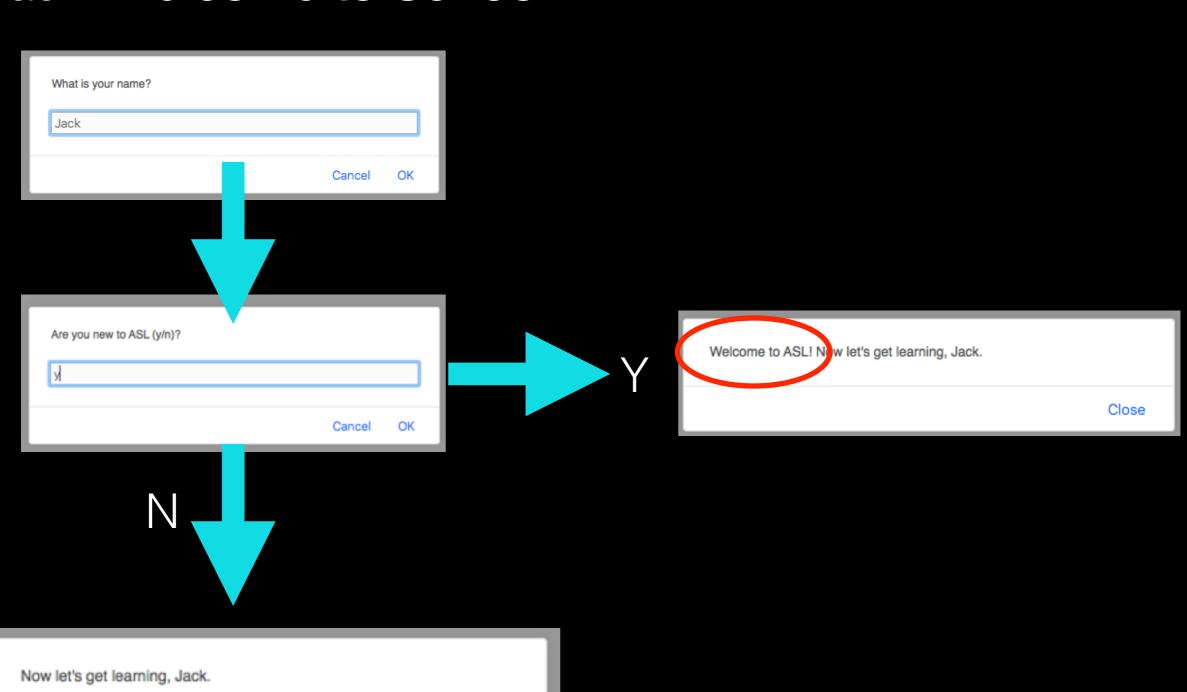
Create a flowchart

What is your name?

Jack

Cancel OK





Close

# Initialize empty string.

```
<script>
   // This program welcomes peop z to school. It gives
 3
    // a special message to the
                                   who are new.
 4
 5
    var name = prompt("What is your name?");
    var isNew = prompt()
                           you new to ASL (y/n)?");
 6
 8
    var message = "";
 9
    if (isNew.toLowerCase() == "y") {
10
        message = "Welcome to ASL!";
11
12
13
14
    message += " Now let's get learning, " + name + ".";
15
16
    alert(message);
    </script>
17
```

# Task: Welcome to School Make sure is New is lower case.

```
<script>
   // This program welcomes people to ____nool. It gives
    // a special message to those who are new.
 3
 4
 5
    var name = prompt("What is y ar name?");
    var isNew = prompt("Are y new to ASL (y/n)?");
 6
    var message = "";
 8
 9
    if (isNew.toLowerCase() == "y") {
10
        message = "Welcome to ASL!";
11
12
    }
13
14
    message += " Now let's get learning, " + name + ".";
15
16
    alert(message);
    </script>
17
```

```
<script>
   // This program welcomes people to school. It gives
    // a special message to those who are new.
 3
 4
 5
    var name = prompt("What is your name?");
    var isNew = prompt("Are you new to ASL (y/n)?");
 6
 8
    var message = "";
 9
    if (isNew.toLowerCase() == "y") {
10
        message = "Welcome to ASL!";
11
12
13
14
    message += " Now let's get learning, " + name + ".";
15
16
    alert(messa
    </script>
17
```

Same as

message = message + " Now let's get learning ....

#### Goals

Goal 1: You will understand how computers make decisions.

Goal 2: You will know how to implement an if-statement in JavaScript.

#### Vocabulary

Conditional
If-statement
Code block
Initialize

#### Code

```
if () {}
string.toLowerCase()
+=
==
```