

# Introduction to JavaScript Programming

Coding-Bootcamps.com

## Session 3

### Let's Code #1 - if..else

```
function testNum(a) {  
  if (a > 0) {  
    return "positive";  
  } else {  
    return "NOT positive";  
  }  
}  
  
console.log(testNum(-50));
```

### Let's Code #2 - loops

#### For loop -

```
for (let step = 0; step < 5; step++) {  
  // Runs 5 times, with values of step 0 through 4.  
  console.log('Walking east one step');  
}
```

#### While loop -

```
let n = 0;  
let x = 0;  
while (n < 3) {  
  n++;  
  x += n;  
}
```

#### Do While -

```
let i = 0;  
do {
```

```
    i += 1;
    console.log(i);
} while (i < 5);
```

## Let's Code #3 - functions

- **setTimeout() -**

```
setTimeout(function(){ alert("Hello"); }, 3000);
```

- **setInterval()**

```
setInterval(function(){ alert("Hello"); }, 3000);
```

- **callbacks**

```
function greeting(name) {
    alert('Hello ' + name);
}
```

```
function processUserInput(callback) {
    var name = prompt('Please enter your name. ');
    callback(name);
}
```

```
processUserInput(greeting);
```

- **Promises**

```
doSomething()
    .then(function(result) {
        return doSomethingElse(result);
    })
    .then(function(newResult) {
        return doThirdThing(newResult);
    })
    .then(function(finalResult) {
        console.log('Got the final result: ' + finalResult);
    })
    .catch(failureCallback);
```

# Session 4

## Let's Code#4 - DOM manipulation

### Creation of Elements

```
<div id="main">
  <h1 id="title">Hello World!</h1>
  <p id="hint">This is a simple paragraph.</p>
</div>

<script>
// Creating a new div element
var newDiv = document.createElement("div");

// Creating a text node
var newContent = document.createTextNode("Hi, how are you
doing?");

// Adding the text node to the newly created div
newDiv.appendChild(newContent);

// Adding the newly created element and its content into
the DOM
var currentDiv = document.getElementById("main");
document.body.appendChild(newDiv, currentDiv);
</script>
```

### Removing Elements

```
<div id="main">
  <h1 id="title">Hello World!</h1>
  <p id="hint">This is a simple paragraph.</p>
</div>

<script>
var parentElem = document.getElementById("main");
var childElem = document.getElementById("hint");
parentElem.removeChild(childElem);
</script>
```

## Replacing elements

```
<div id="main">
  <h1 id="title">Hello World!</h1>
  <p id="hint">This is a simple paragraph.</p>
</div>

<script>
var parentElem = document.getElementById("main");
var oldPara = document.getElementById("hint");

// Creating new element
var newPara = document.createElement("p");
var newContent = document.createTextNode("This is a new
paragraph.");
newPara.appendChild(newContent);

// Replacing old paragraph with newly created paragraph
parentElem.replaceChild(newPara, oldPara);
</script>
```