

# Lecture # 9

Course

Advance Web Development

**Ms. Hafiza Alia**  
**(alia@theprotec.com)**

# JavaScript HTML DOM Elements

## Finding HTML Elements

- ▶ There are a couple of ways to do this:
  - ▶ Finding HTML elements by id
  - ▶ Finding HTML elements by tag name
  - ▶ Finding HTML elements by class name
  - ▶ Finding HTML elements by CSS selectors

# Finding HTML Element by Id

- ▶ `var myElement = document.getElementById("intro");`
- ▶ `myElement.innerHTML="ABC";`

# Finding HTML Elements by Tag Name

- ▶ `var x = document.getElementsByTagName("p");`
- ▶ `x.innerHTML="ABC";`
- ▶ The following example first select id and then select all the paragraphs inside Id
  - ▶ Example
    - ▶ `var x = document.getElementById("main");`  
`var y = x.getElementsByTagName("p");`

# Finding HTML Elements by Tag Name

- ▶ `var y=document.getElementById('main');`
- ▶ `var z= y.getElementsByTagName('p');`
- ▶ `console.log(z[0],z[1]);`

# Finding HTML Elements by CSS Selectors

- ▶ The following example returns a list of all `<p>` elements with `class="intro"`.
- ▶ `var x = document.querySelectorAll("p.intro");`
- ▶ `x[0].innerHTML=""`;
- ▶ **Note:** The `querySelectorAll()` method does not work in Internet Explorer 8 and earlier versions.

# Form elements Collections

- ▶ Find no of elements a form have:

- ▶ `var x = document.getElementById("myForm").elements.length;`
- ▶ `var x = document.getElementById("myForm").elements[0].value;`
- ▶ `var x = document.getElementById("myForm").elements[0].name;`

# Finding HTML Elements by HTML Object Collections

- ▶ `var x = document.forms["frm1"];`
- ▶ `document.getElementById("demo").innerHTML = x.elements[1] , x.length;`



# Finding HTML Elements by HTML Object Collections

- ▶ `<form id="form1">`
- ▶ Name `<input type="text" name="abc" value="My Name">`
- ▶ Email `<input type="email" name="email" value="My Email">`
- ▶ Number `<input type="text" name="number" value="My Number">`
- ▶ `</form>`
- ▶ `<p id="output"></p>`

# Finding HTML Elements by HTML Object Collections

```
OnClick=myfunc();  
Function myfunc(){  
var form= document.forms.form1;  
document.getElementById('output').innerHTML=  
▶ form.elements[1].name +  
  form.elements[1].value +  
  form.length;}  
}
```

# JavaScript HTML DOM - Changing CSS

## ▶ Syntax

▶ `document.getElementById(id).style.property = new style`

## ▶ *Example*

```
<p id="p2">Hello World!</p>
```

```
<script>  
document.getElementById("p2").style.color = "blue";  
</script>
```

# JavaScript HTML DOM - Changing CSS

▶ `<h1 id="id1">My Heading 1</h1>`

```
<button type="button"  
onclick="document.getElementById('id1').style.color =  
'red'">  
Click Me!</button>
```

# Changing HTML Attribute

- ▶ `document.getElementById("p1").innerHTML = "New text!";`
- ▶ `document.getElementById("myImage").src = "landscape.jpg";`
- ▶ `document.getElementById("myImage").height=400";`
- ▶ `document.getElementById("myImage").width=300;`

# JavaScript

## End Of Lecture 9