CSE 482L: Internet and Web Technologies

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- Hoisting
- Dom Manipulation
- Array
- Accessing Array in JavaScript
- Closure
- Form Validation

Dom Manipulation	
```html Text goes here <button onclick="f()"> Create</button>```	```javascriptfunction f() { var p = document.createElement("P"); var t = document.createTextNode("AVP"); p.appendChild(t); document.body.appendChild(p);}```

Hoisting	Script.js
```html<!DOCTYPE html><html> <body> <p id="demo"></p> <script src="script.js"> </script> </body></html>```	```javascriptx = 5;demo = document.getElementById("demo");demo.innerHTML = x;var x;```

Array Declaration

```
var points = new Array(1,2,3,4,5,6);

var points = [10,20,30,40,50];
```

```
for (i = 0; i < points.length; i++) {
    document.write(points[i]);
}
```

Adding a new element

```
points.push(55);
```

Named index array

```
person["firstName"] = "John";
person["lastName"] = "Doe";
person["age"] = 46;

document.write(person["age"])
```

Login Form

```
<form name="forms" action="register.php" method="POST">
    First name:<br>
    <input type="text" name="username" placeholder="Username"><br>
    Password:<br>
    <input type="password" name="password" placeholder="Password"><br><br>
    <button>Submit</button>
</form>
```

JavaScript Validation

```
function validateForm() {
    var x = document.forms["forms"]["username"].value;
    var y = document.forms["forms"]["password"].value;

    if (x == "") {
        alert("Username must be filled out");
        return false;
    }

    if (y == "") {
        alert("Password must be filled out");
        return false;
    }
```

Task:

a) Create a form as shown:

b) Implement the following validation rules:
   i)   Name cannot be empty
   ii)   Username cannot be empty and cannot contain whitespace
   iii) Password length is between 8-32 chars
   iv)   Gender is selected
   v)   Contact no. contains numbers only

Closure

```
function f(x, y){

    function p(){
      return x+y;
    }

    return p();
}
document.write(f(1,2))
```