Image Rollover

```
<!DOCTYPE html>
<html>
<body>
    <h2> Image rollover </h2>
    <img src="flower.png" style="height:100px;width:100px;" id="img1">
    <script>
        let picture = document.getElementById("img1");
        // picture.onmouseover = function() {img1.style = "height:150px;
width:150px";};
        // picture.onmouseout = function() {img1.style = "height:100px; width:100px";};
        picture.onmouseover = function() {img1.src = "ball.png";};
        picture.onmouseout = function() {img1.src="flower.png"};
        </script>
</body>
</html>
```

Toggle Pwd

```
<body>
    <h1>Login Page</h1>
    <input type="text" />
    <input type="password" id="txtPwd" />
    <input type="checkbox" onclick="togglePwd()" />Show Password

    <script>
     function togglePwd() {
        if (txtPwd.type === "password") {
            txtPwd.type = "text";
        } else {
            txtPwd.type = "password";
        }
        </script>
      </body>
```

Var vs let keyword

```
var a = 20 //function scope
//var a = 30
if (10>4) {
    var a=10
  }
console.log(a)
......
let b = 20 //function score + block scope
//let b=20
if (10>4) {
    let b=10
}
console.log(b)
```

Transition

```
<IDOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8" />
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
<ititle>Document</title>
<style>
.before {
    position:fixed;
    width: 300px;
    height: 100%;
    top:0px;
    left:100%;
    background-color: silver;
    transition: 0.4s;
}
.after{
    left:calc(100% - 300px)
}
.main {
    width: 200px;
    height: 100px;
    height: 100px;
    height: 100px;
    height: 100px;
    left:100px;
    margin:auto;
    background-color: silver;
    transition: 0.4s;
}
.trn(
    transform:TranslateX(-100px)
}

/style>

/style>

/button id="btn">Click</button>

div id="m" class="main">Main

/div d="m" class="before">Hello World

/div script>
btn.onclick = () => {
    d.class.list.add("after");
    m.classlist.add("ftrn")
}

/script>

/body>

/body>

/btml>
```

Spread Operator (...)

```
const numbersOne = [1, 2, 3];
const numbersTwo = [4, 5, 6];
const numbersCombined = [...numbersOne, ...numbersTwo];
const numbers = [1, 2, 3, 4, 5, 6];
const [one, two, ...rest] = numbers;
const myVehicle = {
    brand: 'Ford',
    model: 'Mustang',
    color: 'red'}
const updateMyVehicle = {
    type: 'car',
    year: 2021,
    color: 'yellow'}
const myUpdatedVehicle = {...myVehicle, ...updateMyVehicle}
```

Keydown, keyup and keypress

```
<textarea id="th" rows="20" cols="40"></textarea>
    <script>
    let b = document.body;
    b.onkeydown =
        b.onkeyup =
        b.onkeypress =
        function handle(e) {
          th.value = e.key;
        };
    </script>
```

Fruit Game – Arrow Key

```
SIGNOVER TOWN OF THE STATE OF T
```

Event Bubbling vs Capturing

Error Handling – reference error

```
try{
      console.log(a)
   }
catch(err){
      console.log(err)
      console.log(err.message)
      console.log(err.name)
   }
```

Error Handling – eval & syntaxError

```
if we try to evaluate code with a syntax error.
try{
    let name="document.write(Hello World')"
    let result = eval(name)
        console.log(result)
    }
    catch(err){
        console.log(err)
        console.log(err.message)
        console.log(err.name)
    }
}
```

Error Handling – typeError

```
try {
    let num = 34
    console.log(num.toLowerCase());
} catch (err) {
    console.log(err);
    console.log(err.message);
    console.log(err.name);
}
```

Event onfocus/ onblur