

NAME – ANMOL
REG NO – 19BCE0891

ASSIGNMENT – 2

1. Consider an application that allows the user to enter a list of integers as long as the values are unique. If the user tends to enter a value which is already in the list, then the user is not allowed to enter the values further with an error message stating that “Duplicate”. Otherwise the message “Unique” is displayed. Write a JavaScript for given problem.

CODE -

```
<html>
<head>
  <title>ANMOL - 19BCE0891</title>
</head>

<body>
  <center>
    <form action="#">
      <h1>DUPLICACY IN LIST</h1>
      Input a number :
      <input type="number" name="" id="num" />
      <br /><br />

      <button onclick="check()">check number</button>
      <br /><br />

      <h3 style="color: blue" id="out">List :</h3>

      <h1 style="color: green" id="status"></h1>
    </form>
  </center>
</body>
<script>
  var inpNums = [];

  function check() {
    var inp = parseInt(document.getElementById("num").value);

    if (inpNums.includes(inp)) {
      document.getElementById("status").innerHTML = "DUPLICATE";
      document.getElementById("status").style.color = "red";

      document.getElementById("num").disabled = true;
    } else {
      inpNums.push(inp);

      let text = inpNums.toString();
      document.getElementById("out").innerHTML = "List : " + inpNums;
```

BCI3001 – WEB SECURITY (L35 + L36)

```
        document.getElementById("status").innerHTML = "UNIQUE";
    }
}
</script>
</html>
```

CODE SNIPPETS -

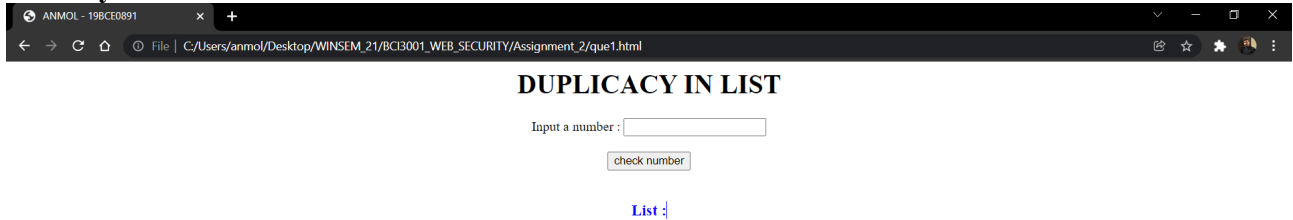
```
<> que1.html > html
1  <html>
2  <head>
3  <title>ANMOL - 19BCE0891</title>
4  </head>
5
6  <body>
7  <center>
8  <form action="#">
9  <h1>DUPLICACY IN LIST</h1>
10  Input a number :
11  <input type="number" name="" id="num" />
12  <br /><br />
13
14  <button onclick="check()">check number</button>
15  <br /><br />
16
17  <h3 style="color: blue" id="out">List :</h3>
18
19  <h1 style="color: green" id="status"></h1>
20  </form>
21  </center>
22  </body>
23
24  <script>
25  var inpNums = [];
26
27  function check() {
28  var inp = parseInt(document.getElementById("num").value);
29
30  if (inpNums.includes(inp)) {
31  document.getElementById("status").innerHTML = "DUPLICATE";
32  document.getElementById("status").style.color = "red";
33
34  document.getElementById("num").disabled = true;
35  } else {
36  inpNums.push(inp);
```

```
36  inpNums.push(inp);
37
38  let text = inpNums.toString();
39  document.getElementById("out").innerHTML = "List : " + inpNums;
40  document.getElementById("status").innerHTML = "UNIQUE";
41  }
42  }
43  </script>
44  </html>
45
```

BCI3001 – WEB SECURITY (L35 + L36)

OUTPUT -

Initially :



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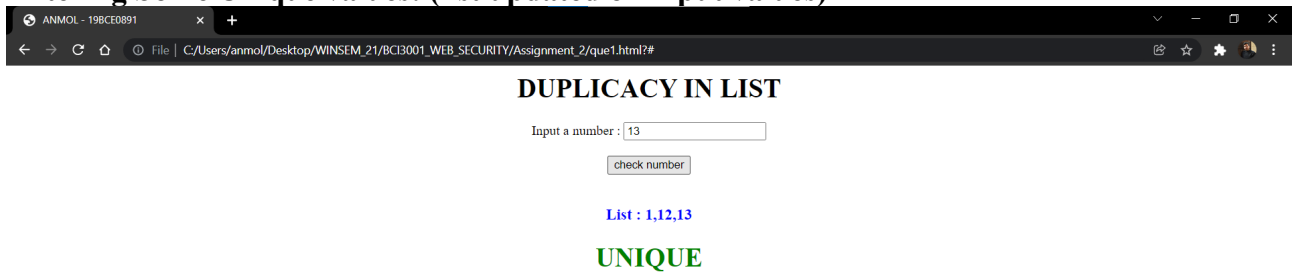
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DUPLICACY IN LIST

Input a number :

List :

Entering Some Unique values: (list updated on input values)



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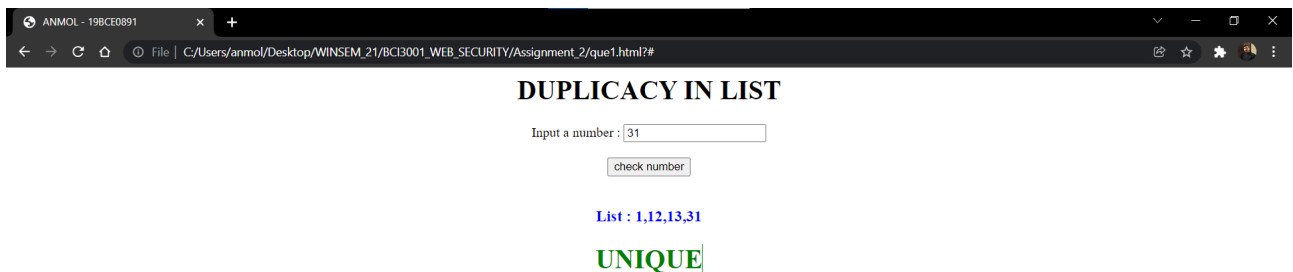
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DUPLICACY IN LIST

Input a number : 13

List : 1,12,13

UNIQUE



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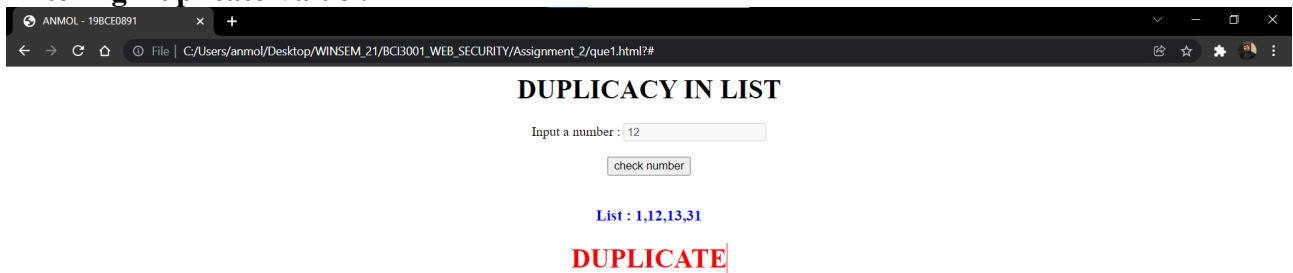
DUPLICACY IN LIST

Input a number : 31

List : 1,12,13,31

UNIQUE

Entering Duplicate Value :



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DUPLICACY IN LIST

Input a number : 12

List : 1,12,13,31

DUPLICATE

(inputing field get disabled)

BCI3001 – WEB SECURITY (L35 + L36)

3. BMI Body Mass Index (BMI) is a measure of health on weight. It can be calculated by taking your weight in kilograms and dividing by the square of your height in meters. The interpretation of BMI for people 16 years or older is as follows :

BMI	Interpretation
below 16	serious underweight
16-18	underweight
18-24	normal weight
24-29	overweight
29-35	seriously overweight
above 35	gravely overweight

CODE -

```
<html>
<head>
  <title>ANMOL - 19BCE0901</title>
</head>
<body>
  <center>
    <h1>BMI Calculator</h1>

    <form action="#">
      ENTER HEIGHT :
      <input type="text" placeholder="in cm" id="ht" />
      <br /><br />

      ENTER WEIGHT :
      <input type="text" placeholder="in kg" id="wt" />
      <br /><br />

      <button onclick="bmi()" id="btn">Calculate</button>
      <h3 id="bmiVal" style="color: blue"></h3>
      <h2 id="status" style="color: red"></h2>
    </form>
  </center>
</body>

<script>
function bmi() {
  var ht = Number(document.getElementById("ht").value);
  var wt = Number(document.getElementById("wt").value);
  var bmi = (wt / ((ht * ht) / 10000)).toFixed(2);
  document.getElementById("bmiVal").innerHTML = "BMI is : " + bmi;
  if (bmi < 16) {
```

BCI3001 – WEB SECURITY (L35 + L36)

```
document.getElementById("status").innerHTML = "SERIOULSY UNDERWEIGHT";
document.getElementById("status").style.color = "red";
} else if (bmi >= 16 && bmi < 18) {
document.getElementById("status").innerHTML = "UNDERWEIGHT";
document.getElementById("status").style.color = "red";
} else if (bmi >= 18 && bmi < 24) {
document.getElementById("status").innerHTML = "NORMAL WEIGHT";
document.getElementById("status").style.color = "green";
} else if (bmi >= 24 && bmi < 29) {
document.getElementById("status").innerHTML = "OVERWEIGHT";
document.getElementById("status").style.color = "red";
} else if (bmi >= 29 && bmi < 35) {
document.getElementById("status").innerHTML = "SERIOULSY OVERWEIGHT";
document.getElementById("status").style.color = "red";
} else if (bmi >= 35) {
document.getElementById("status").innerHTML = "GRAVELY OVERWEIGHT";
document.getElementById("status").style.color = "red";
}
}
</script>
</html>
```

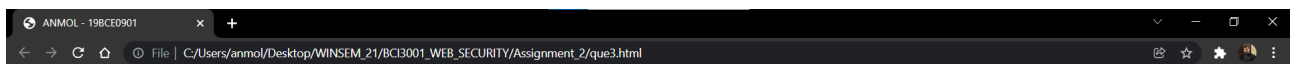
CODE SNIPPETS -

```
que3.html > html > script > bmi
1 <html>
2 <head>
3 <title>ANMOL - 19BCE0901</title>
4 </head>
5 <body>
6 <center>
7 <h1>BMI Calculator</h1>
8
9 <form action="#">
10 ENTER HEIGHT :
11 <input type="text" placeholder="in cm" id="ht" />
12 <br /><br />
13
14 ENTER WEIGHT :
15 <input type="text" placeholder="in kg" id="wt" />
16 <br /><br />
17
18 <button onclick="bmi()" id="btn">Calculate</button>
19 <h3 id="bmiVal" style="color: blue"></h3>
20 <h2 id="status" style="color: red"></h2>
21 </form>
22 </center>
23 </body>
24
25 <script>
26 function bmi() {
27 var ht = Number(document.getElementById("ht").value);
28 var wt = Number(document.getElementById("wt").value);
29
30 var bmi = (wt / ((ht * ht) / 10000)).toFixed(2);
```

BCI3001 – WEB SECURITY (L35 + L36)

```
31
32 document.getElementById("bmiVal").innerHTML = "BMI is : " + bmi;
33 if (bmi < 16) {
34     document.getElementById("status").innerHTML = "SERIOULSY UNDERWEIGHT";
35 } else if (bmi >= 16 && bmi < 18) {
36     document.getElementById("status").innerHTML = "UNDERWEIGHT";
37 } else if (bmi >= 18 && bmi < 24) {
38     document.getElementById("status").innerHTML = "NORMAL WEIGHT";
39     document.getElementById("status").style.color = "green";
40 } else if (bmi >= 24 && bmi < 29) {
41     document.getElementById("status").innerHTML = "OVERWEIGHT";
42 } else if (bmi >= 29 && bmi < 35) {
43     document.getElementById("status").innerHTML = "SERIOULSY OVERWEIGHT";
44 } else if (bmi >= 35) {
45     document.getElementById("status").innerHTML = "GRAVELY OVERWEIGHT";
46 }
47 }
48 </script>
49 </html>
50
```

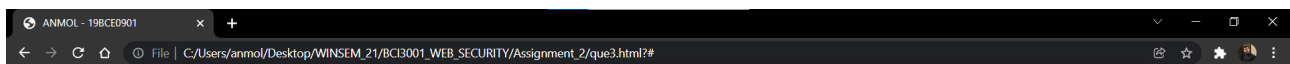
OUTPUT -



BMI Calculator

ENTER HEIGHT :

ENTER WEIGHT :



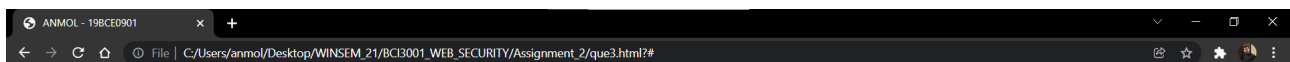
BMI Calculator

ENTER HEIGHT :

ENTER WEIGHT :

BMI is : 44.44

GRAVELY OVERWEIGHT



BMI Calculator

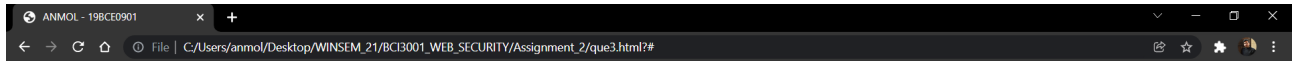
ENTER HEIGHT :

ENTER WEIGHT :

BMI is : 34.60

SERIOULSY OVERWEIGHT

BCI3001 – WEB SECURITY (L35 + L36)



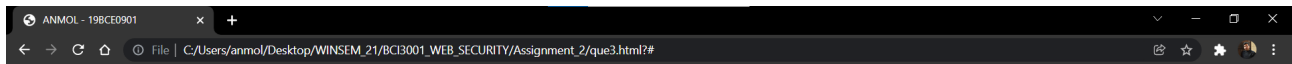
BMI Calculator

ENTER HEIGHT :

ENTER WEIGHT :

BMI is : 27.70

OVERWEIGHT



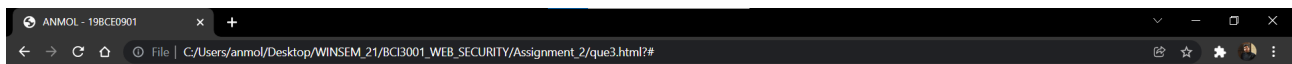
BMI Calculator

ENTER HEIGHT :

ENTER WEIGHT :

BMI is : 20.00

NORMAL WEIGHT



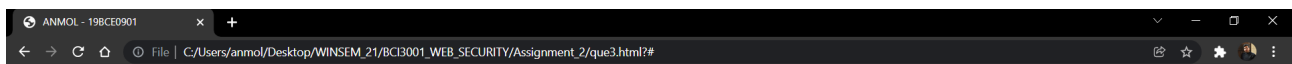
BMI Calculator

ENTER HEIGHT :

ENTER WEIGHT :

BMI is : 17.50

UNDERWEIGHT



BMI Calculator

ENTER HEIGHT :

ENTER WEIGHT :

BMI is : 15.00

SERIOUSLY UNDERWEIGHT