

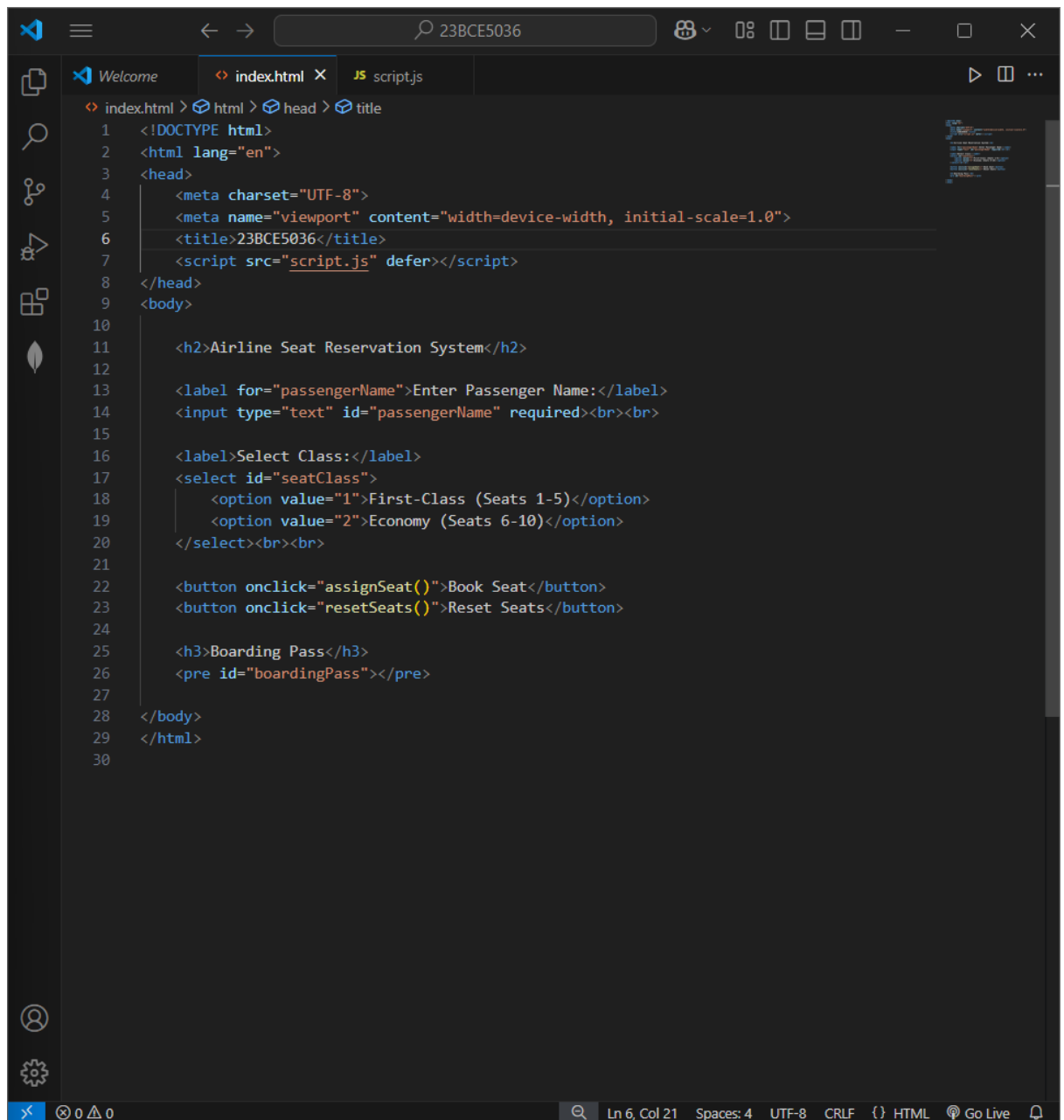
Programme	: B.Tech.	Semester	: Winter24-25
Course	: BCSE203E: Web Programming Lab	Slot	: TE1/TE2
Faculty	: Dr. LM Jenila Livingston	Marks	: 10

Name: Sara Arora

Register No. 23BCE5036

Exercise-9

Question-1



```

1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>23BCE5036</title>
7      <script src="script.js" defer></script>
8  </head>
9  <body>
10
11      <h2>Airline Seat Reservation System</h2>
12
13      <label for="passengerName">Enter Passenger Name:</label>
14      <input type="text" id="passengerName" required><br><br>
15
16      <label>Select Class:</label>
17      <select id="seatClass">
18          <option value="1">First-Class (Seats 1-5)</option>
19          <option value="2">Economy (Seats 6-10)</option>
20      </select><br><br>
21
22      <button onclick="assignSeat()">Book Seat</button>
23      <button onclick="resetSeats()">Reset Seats</button>
24
25      <h3>Boarding Pass</h3>
26      <pre id="boardingPass"></pre>
27
28  </body>
29  </html>
30

```

```
21     seatNumber = alternativeSeat;
22   } else {
23     alert("Next flight leaves in 3 hours.");
24     return;
25   }
26 } else {
27   alert("Sorry, all seats are booked. Next flight leaves in 3 hours.");
28   return;
29 }
30 }
31
32 seats[seatNumber] = 1;
33 displayBoardingPass(name, seatNumber + 1, seatClass);
34 }
35
36 function findAvailableSeat(seatClass) {
37   let start = seatClass === "1" ? 0 : 5;
38   let end = seatClass === "1" ? 5 : 10;
39
40   for (let i = start; i < end; i++) {
41     if (seats[i] === 0) {
42       return i;
43     }
44   }
45   return -1;
46 }
47
48 function displayBoardingPass(name, seatNumber, seatClass) {
49   let seatType = seatClass === "1" ? "First-Class" : "Economy";
50   document.getElementById("boardingPass").textContent =
51     `Passenger Name: ${name}\nSeat Number: ${seatNumber}\nClass: ${seatType}`;
52 }
53
54 function resetSeats() {
55   seats.fill(0);
56   document.getElementById("boardingPass").textContent = "";
57   alert("All seats have been reset.");
58 }
59 }
```

Code:

23BCE5036

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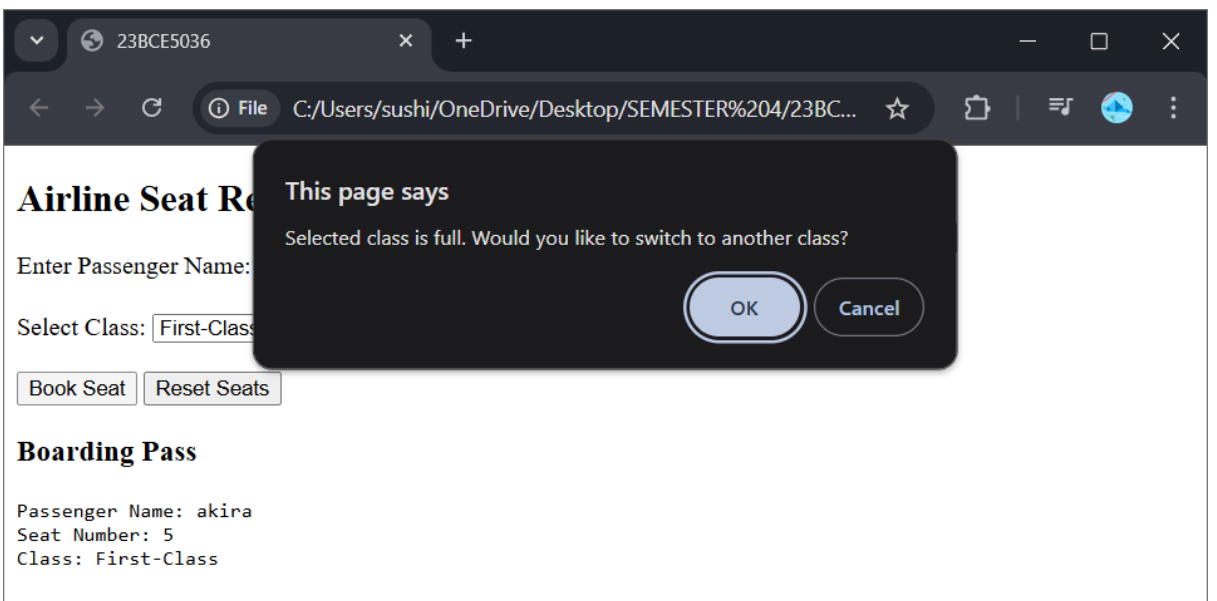
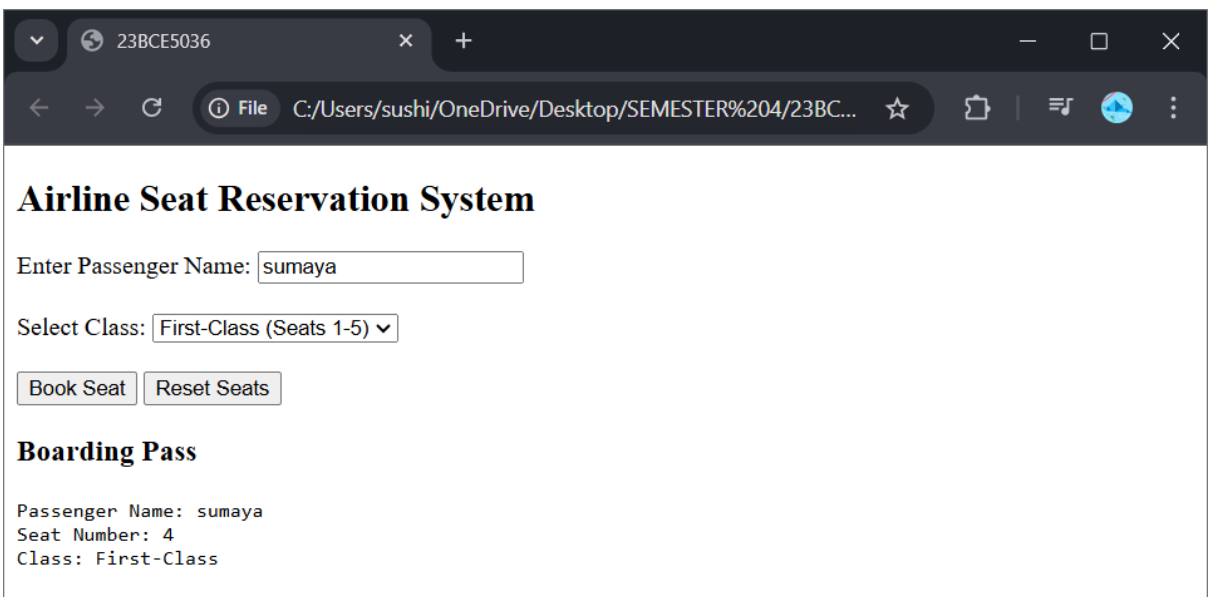
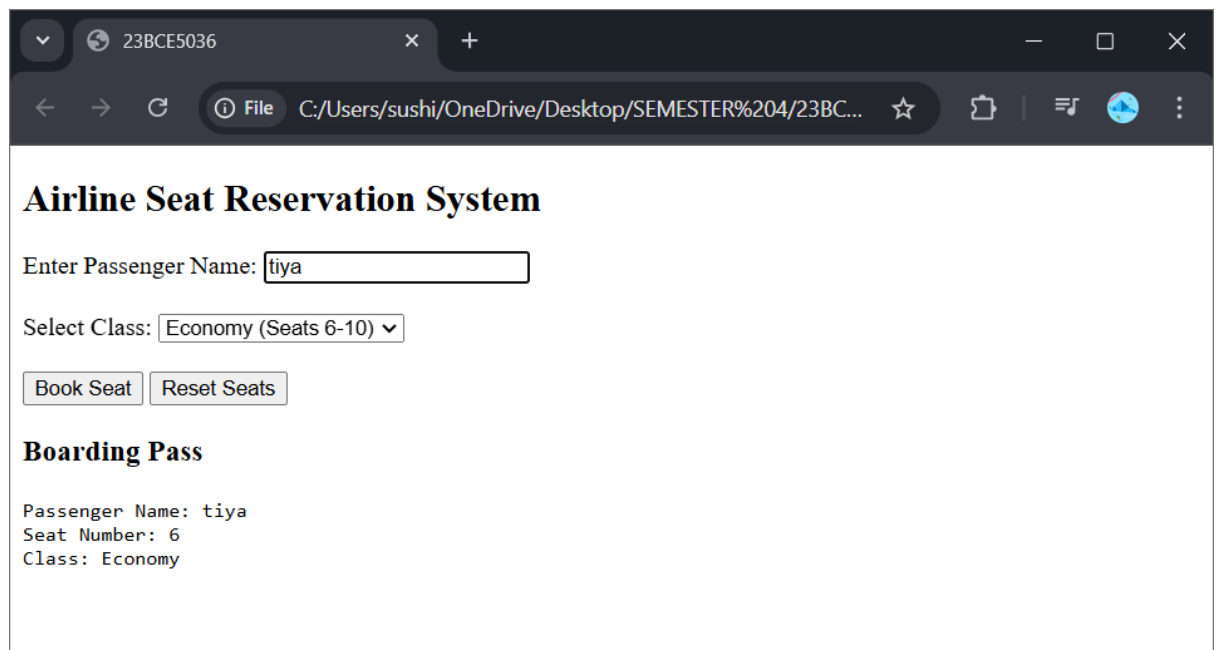
Airline Seat Reservation System

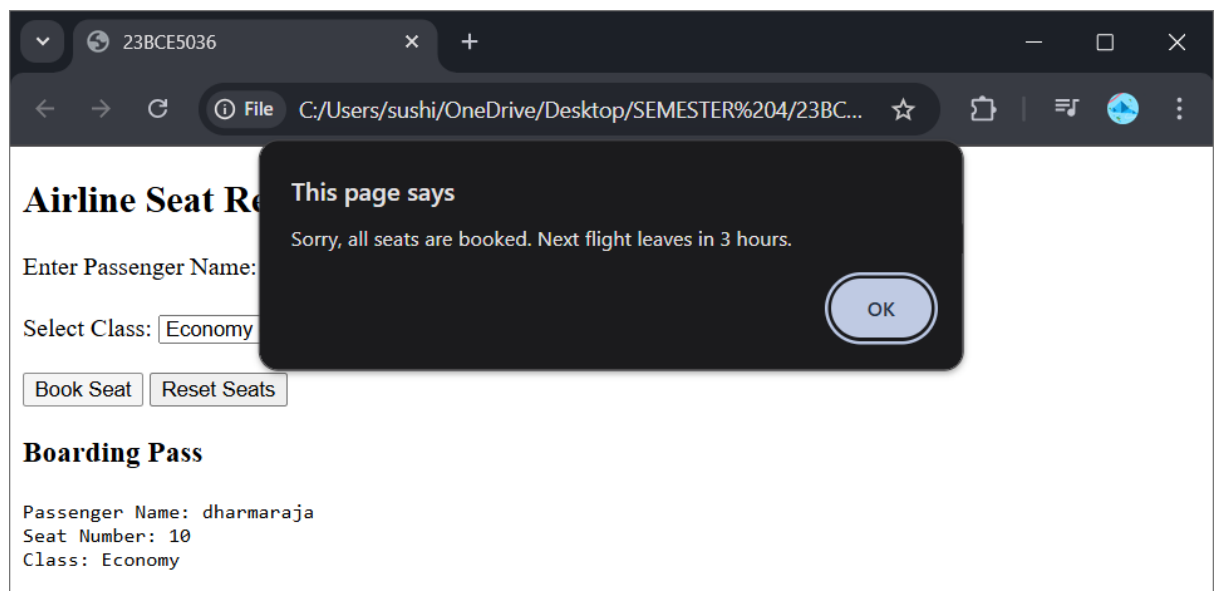
Enter Passenger Name:

Select Class:

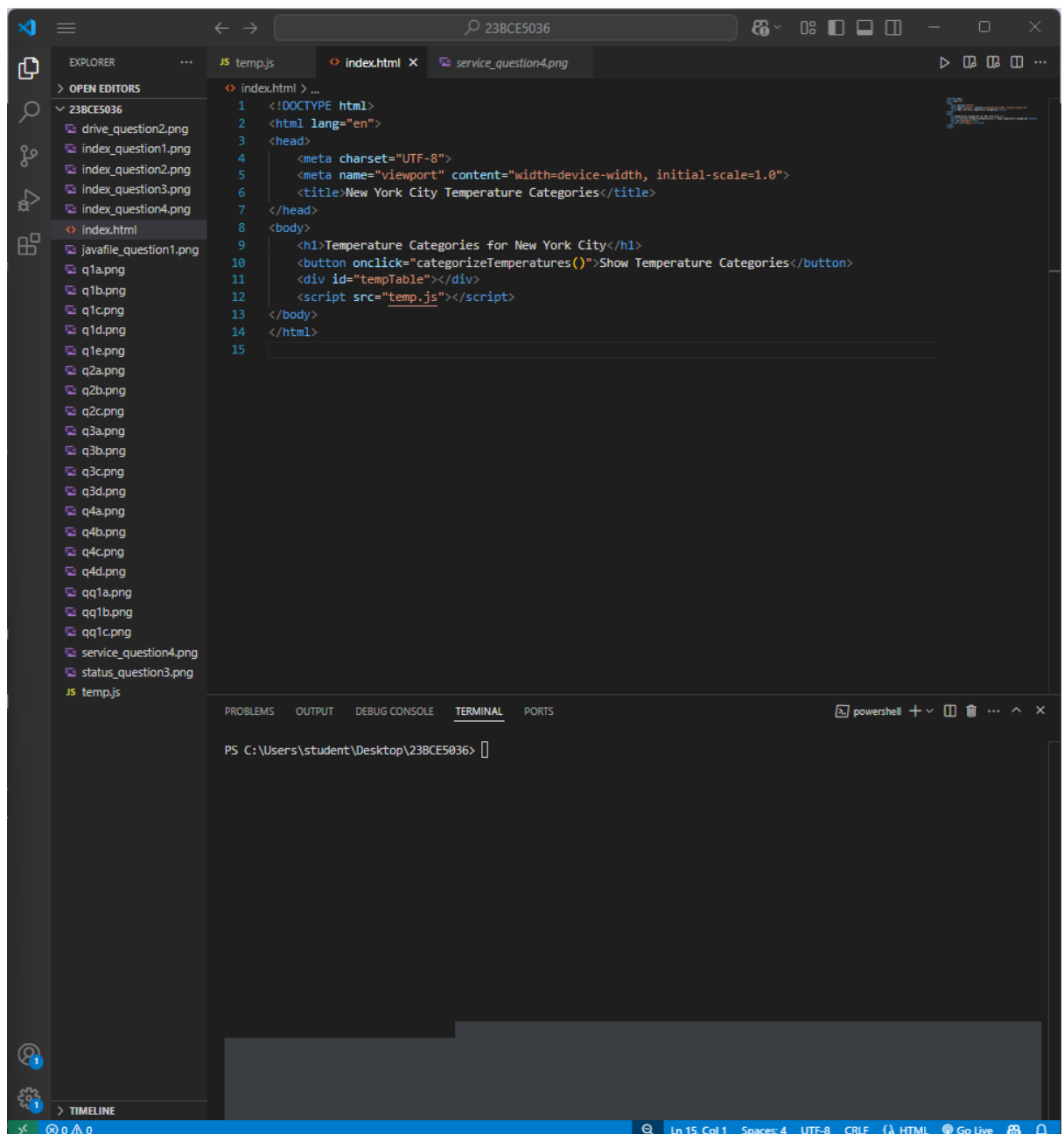
First-Class (Seats 1-5) ▾
First-Class (Seats 1-5)
Economy (Seats 6-10)

Boarding Pass





Question-2

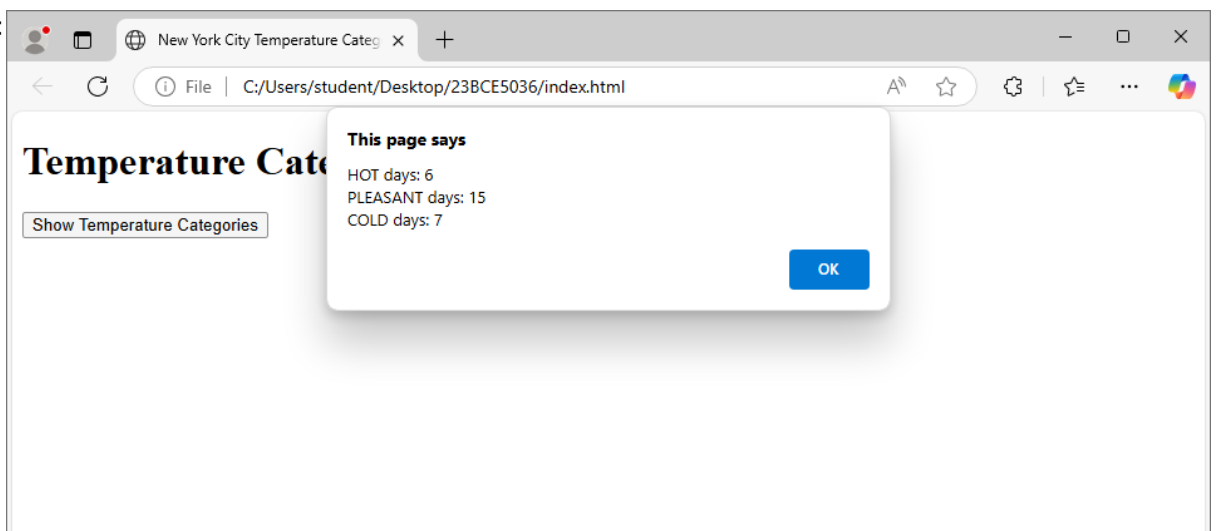


```
File Edit Selection View ... 238CE5036
tempjs x index.html service_question4.png
1 function categorizeTemperatures() {
2   const temperatures = [55, 62, 68, 74, 59, 45, 41, 58, 60, 67, 65, 78, 82, 88, 91, 92, 90, 93, 87, 80, 78, 79, 72, 68, 61, 59, 55, 65];
3   let hotDays = 0, pleasantDays = 0, coldDays = 0;
4   let tableContent = "<table border='1'><tr><th>Temperature (°F)</th><th>Category</th></tr>";
5
6   for (let i = 0; i < temperatures.length; i++) {
7     let category = "";
8     if (temperatures[i] >= 85) {
9       category = "HOT";
10      hotDays++;
11    } else if (temperatures[i] >= 60 && temperatures[i] <= 84) {
12      category = "PLEASANT";
13      pleasantDays++;
14    } else {
15      category = "COLD";
16      coldDays++;
17    }
18    tableContent += "<tr><td>${temperatures[i]}</td><td>${category}</td></tr>";
19  }
20
21  tableContent += "</table>";
22
23  alert("HOT days: " + hotDays + "\nPLEASANT days: " + pleasantDays + "\nCOLD days: " + coldDays);
24
25  document.getElementById("tempTable").innerHTML = tableContent;
26 }
27
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

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Code:



New York City Temperature Categories

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Temperature Categories

Show Temperature Categories

Temperature (°F)	Category
55	COLD
62	PLEASANT
68	PLEASANT
74	PLEASANT
59	COLD
45	COLD
41	COLD
58	COLD
60	PLEASANT
67	PLEASANT
65	PLEASANT
78	PLEASANT
82	PLEASANT
88	HOT
91	HOT
92	HOT
90	HOT
93	HOT
87	HOT
80	PLEASANT
78	PLEASANT
79	PLEASANT
72	PLEASANT
68	PLEASANT
61	PLEASANT
59	COLD
55	COLD
65	PLEASANT

This page says
 HOT days: 6
 PLEASANT days: 15
 COLD days: 7

OK

Question-3

```

index.html | JS script.js
index.html > html > head > title
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>23BCE5036</title>
7   <script src="script.js" defer></script>
8 </head>
9 <body>
10
11   <h2>BMI Calculator</h2>
12
13   <label for="weight">Enter Your Weight (in pounds):</label>
14   <input type="number" id="weight" min="1" required><br><br>
15
16   <label>Enter Your Height:</label><br>
17   <label for="feet">Feet:</label>
18   <input type="number" id="feet" min="0" required>
19   <label for="inches">Inches:</label>
20   <input type="number" id="inches" min="0" max="11" required><br><br>
21
22   <button onclick="calculateBMI()">Calculate</button>
23   <button onclick="clearFields()">Clear</button><br><br>
24
25   <label>Your BMI:</label>
26   <input type="text" id="bmiResult" readonly><br>
27
28 </body>
29 </html>
30
  
```

```
JS script.js > calculateBMI
1 function calculateBMI() {
2   let weight = document.getElementById("weight").value;
3   let feet = document.getElementById("feet").value;
4   let inches = document.getElementById("inches").value;
5
6   if (weight === "" || feet === "" || inches === "" || weight <= 0 || feet < 0 || inches
7     alert("Please enter valid weight and height values.");
8   return;
9 }
10
11 let totalInches = (parseInt(feet) * 12) + parseInt(inches);
12 let bmi = (703 * weight) / (totalInches * totalInches);
13
14 document.getElementById("bmiResult").value = bmi.toFixed(2);
15 let status = getStatus(bmi);
16 alert("Your BMI is " + bmi.toFixed(2) + ". Status: " + status);
17 }
18
19 function getStatus(bmi) {
20   if (bmi < 17.50) return "Anorexia";
21   if (bmi >= 17.50 && bmi < 19.10) return "Underweight";
22   if (bmi >= 19.11 && bmi < 25.80) return "Ideal Range";
23   if (bmi >= 25.81 && bmi < 27.30) return "Marginally Overweight";
24   if (bmi >= 27.31 && bmi < 32.30) return "Overweight";
25   return "Very Overweight or Obese";
26 }
27
28 function clearFields() {
29   document.getElementById("weight").value = "";
30   document.getElementById("feet").value = "";
31   document.getElementById("inches").value = "";
32   document.getElementById("bmiResult").value = "";
33 }
34
```

BMI Calculator

Enter Your Weight (in pounds):

Enter Your Height:

Feet:

Your BMI:

This page says
Your BMI is 7.75. Status: Anorexia

23BCE5036

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BMI Calculator

Enter Your Weight (in pounds):

Enter Your Height:

Feet: Inches:

Your BMI: