```javascript
1    // ****************Homework4 Pt 2 script************************
2    // Array of interest rates
3    const interestRates = ["5", "6", "7"];
4
5    // Function to create a table for a given interest rate
6    function createTable(interestRate) {
7        // Generate a unique ID for each table
8        const tableId = `table-${interestRate.replace('%', '')}`;
9
10       // Create a container div for the table
11       const containerDiv = document.createElement("div");
12       containerDiv.id = tableId;
13       containerDiv.classList.add("hwkpt2");
14
15       // Append the container div to the parent element
16       const parentDiv = document.getElementById("table-box");
17       parentDiv.appendChild(containerDiv);
18
19       // Create a title above the table
20       const title = document.createElement("h3");
21       title.textContent = `Compound ${interestRate}% Interest Rate`;
22       containerDiv.appendChild(title);
23
24       // Create the table inside the container div
25       const table = document.createElement("table");
26       table.setAttribute("border", "1");
27
28       const caption = document.createElement("caption");
29       caption.style.display = "none";
30       caption.textContent = "Amount and rate table";
31
32       const thead = document.createElement("thead");
33       const theadRow = document.createElement("tr");
34       theadRow.style.backgroundColor = " #1d0e6b";
35       theadRow.style.color = "white";
36
37       const thYear = document.createElement("th");
38       thYear.setAttribute("scope", "col");
39       thYear.textContent = "Year";
40
41       const thAmount = document.createElement("th");
42       thAmount.setAttribute("scope", "col");
43       thAmount.textContent = "Amount on deposit ($)";
44
45       const thInterestRate = document.createElement("th");
46       thInterestRate.setAttribute("scope", "col");
47       thInterestRate.textContent = "Interest Rate (%)";
48
49       theadRow.appendChild(thYear);
50       theadRow.appendChild(thAmount);
51       theadRow.appendChild(thInterestRate);
52
53       thead.appendChild(theadRow);
54
55       const tbody = document.createElement("tbody");
56
57       // Loop through years (n)
58       for (let n = 1; n <= 5; n++) {
59           const row = document.createElement("tr");
60           row.style.backgroundColor = n % 2 === 0 ? "#e20707" : "#417bcb"; // Rotate
               colors for each row
61
62           const tdYear = document.createElement("td");
63           tdYear.style.border = "1px solid gray";
64           tdYear.textContent = n;
65
66           const tdAmount = document.createElement("td");
67           tdAmount.style.border = "1px solid gray";
68
```

```
69              // Calculate the amount (A) using the formula
70              const P = 1000; // Principal amount
71              const r = parseFloat(interestRate) / 100; // Convert interest rate to a decimal
72              const A = P * Math.pow(1 + r, n);
73
74              tdAmount.textContent = A.toFixed(2); // Format the amount to two decimal places
75
76              const tdInterestRate = document.createElement("td");
77              tdInterestRate.style.border = "1px solid gray";
78              tdInterestRate.textContent = interestRate;
79
80              row.appendChild(tdYear);
81              row.appendChild(tdAmount);
82              row.appendChild(tdInterestRate);
83
84              tbody.appendChild(row);
85          }
86
87      table.appendChild(caption);
88      table.appendChild(thead);
89      table.appendChild(tbody);
90
91      containerDiv.appendChild(table);
92  }
93
94  // Create tables for each interest rate
95  document.addEventListener("DOMContentLoaded", function () {
96      for (let i = 0; i < interestRates.length; i++) {
97          createTable(interestRates[i]);
98      }
99  });
```