12/1/23, 12:44 AM arrary.js

## arrary.js

```
//Part 1: Refactoring Old Code
    //Part 3: Feeling Loopy
 2
    const csvString = "Index,Mass (kg),Spring 1 (m),Spring 2 (m)\n1,0.00,0.050,0.050\n2,0.49,
 3
    0.066,0.066\n3,0.98,0.087,0.080\n4,1.47,0.116,0.108\n5,1.96,0.142,0.138\n6,2.45,0.166,
    0.158 \times 0.193, 0.193, 0.174 \times 0.192 \times 0.192 \times 0.192 \times 0.226, 0.205 \times 0.193, 0.232
 4
 5
    function parseCSV(csvString) {
 6
        const rows = csvString.split('\n'); // Split the CSV string into rows using the newline
    character "\n"
 7
 8
        for (const row of rows) {
 9
            const cells = row.split(','); // Split the row into cells using the comma ","
10
            const rowData = [];
11
12
            for (const cell of cells) {
13
                 rowData.push(cell); // Store each cell in the rowData array
14
            }
15
16
            console.log(rowData); // Log the entire row data array
17
18
    }
19
    console.log("\nExample String:");
20
21
    parseCSV(csvString);
22
23
24
    //Part 2: Expanding Functionality
25
    const testString2 = 'ID,Name,Occupation,Age\n42,Bruce,Knight,41\n57,Bob,Fry Cook,19\n63,
    Blaine,Quiz Master,58\n98,Bill,Doctor's Assistant,26';
26
27
    // Split the CSV string into rows using the newline character "\n"
28
    const dataArray2 = testString2.split('\n');
29
30
    // Loop through each row and replace it with an array of cells
31
    for (let i = 0; i < dataArray2.length; i++) {</pre>
32
        dataArray2[i] = dataArray2[i].split(',');
33
    }
34
35
    console.log(dataArray2);
36
37
38
    //Part 3: Transforming Data
    const csvString1 = "ID,Name,Occupation,Age\n42,Bruce,Knight,41\n57,Bob,Fry Cook,19\n63,Blaine,
39
    Quiz Master,58\n98,Bill,Doctor's Assistant,26";
40
41
    const rows = csvString1.split('\n');
42
    const headings = rows.shift().split(',');
43
44
    const objectsArray = [];
45
    for (const row of rows) {
46
        const values = row.split(',');
47
        const object = {};
48
        for (let i = 0; i < headings.length; i++) {</pre>
49
            object[headings[i].toLowerCase()] = values[i];
```

99