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Roll No: 05

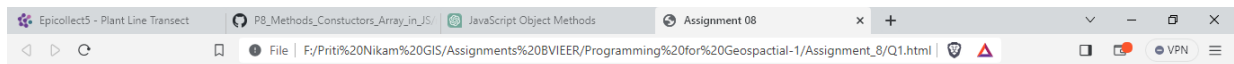
Practical 8: Methods, Constructor, and Array in JS

Note: Create an HTML file for all the below questions.

Q1. What are methods in JavaScript. Create a method for greeting a user “Hello”?



```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>Assignment 08</title>
5 </head>
6 <body>
7   <h1>Q1</h1>
8   <p>What are methods in JavaScript? Create a method for greeting a user "Hello"?</p>
9   <p>Answer 1: In JavaScript, methods are functions that are associated with objects.</p>
10  <p>Answer 2: They are a fundamental part of object-oriented programming in JavaScript.</p>
11  <p>Answer 3: Methods allow you to define behavior that can be performed on or with an object.</p>
12  <p id="greetSir"></p>
13
14  <script>
15    function greetUser() {
16      let greetingText = document.getElementById("greetSir");
17      greetingText.textContent = "Hello";
18    }
19    greetUser();
20  </script>
21 </body>
22 </html>
```



Q1

What are methods in JavaScript? Create a method for greeting a user "Hello"?

Answer 1: In JavaScript, methods are functions that are associated with objects.

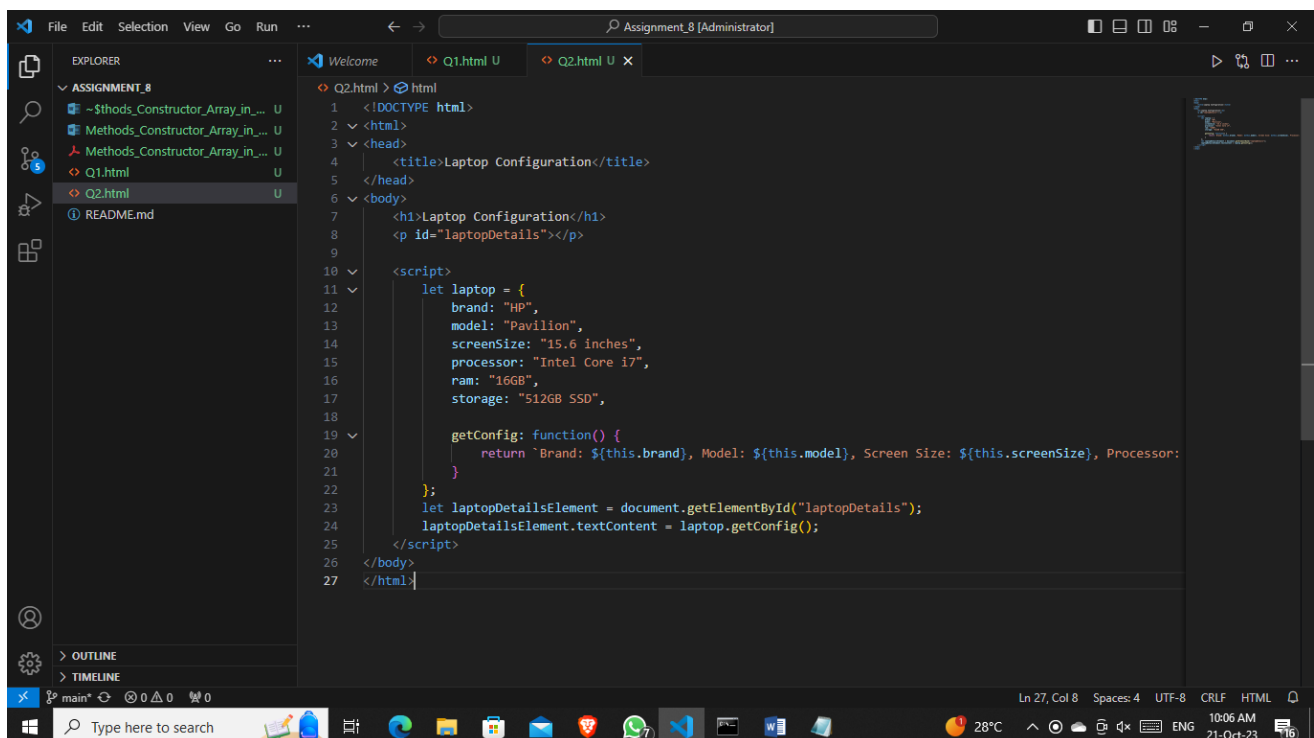
Answer 2: They are a fundamental part of object-oriented programming in JavaScript.

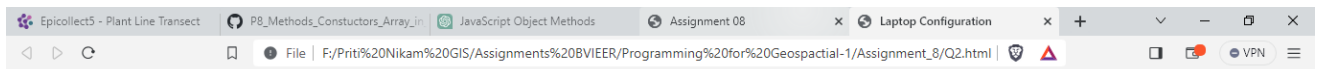
Answer 3: Methods allow you to define behavior that can be performed on or with an object.

Hello



Q2. Create a getConfig method in an object to get details about a laptop.



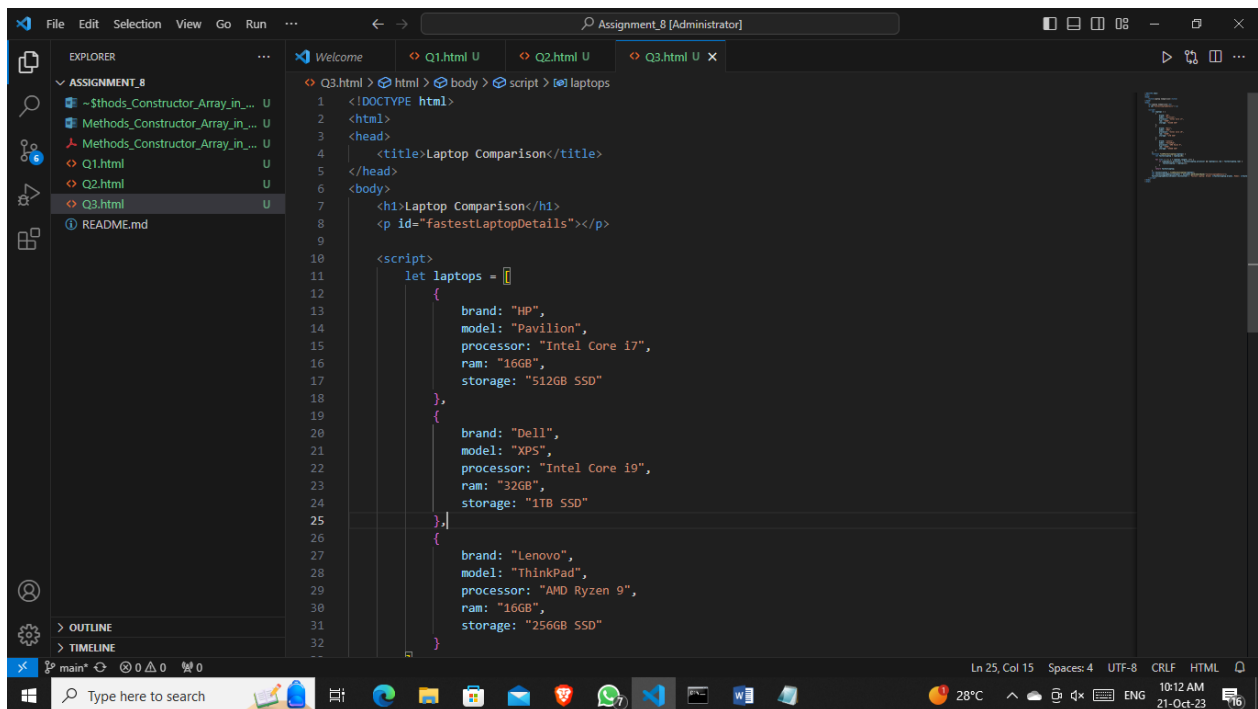


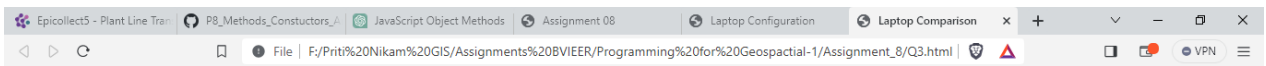
Laptop Configuration

Brand: HP, Model: Pavilion, Screen Size: 15.6 inches, Processor: Intel Core i7, RAM: 16GB, Storage: 512GB SSD



Q3. Create multiple laptop objects, and declare a method to compare the laptop object with another laptop object to get the fastest laptop having more RAM.



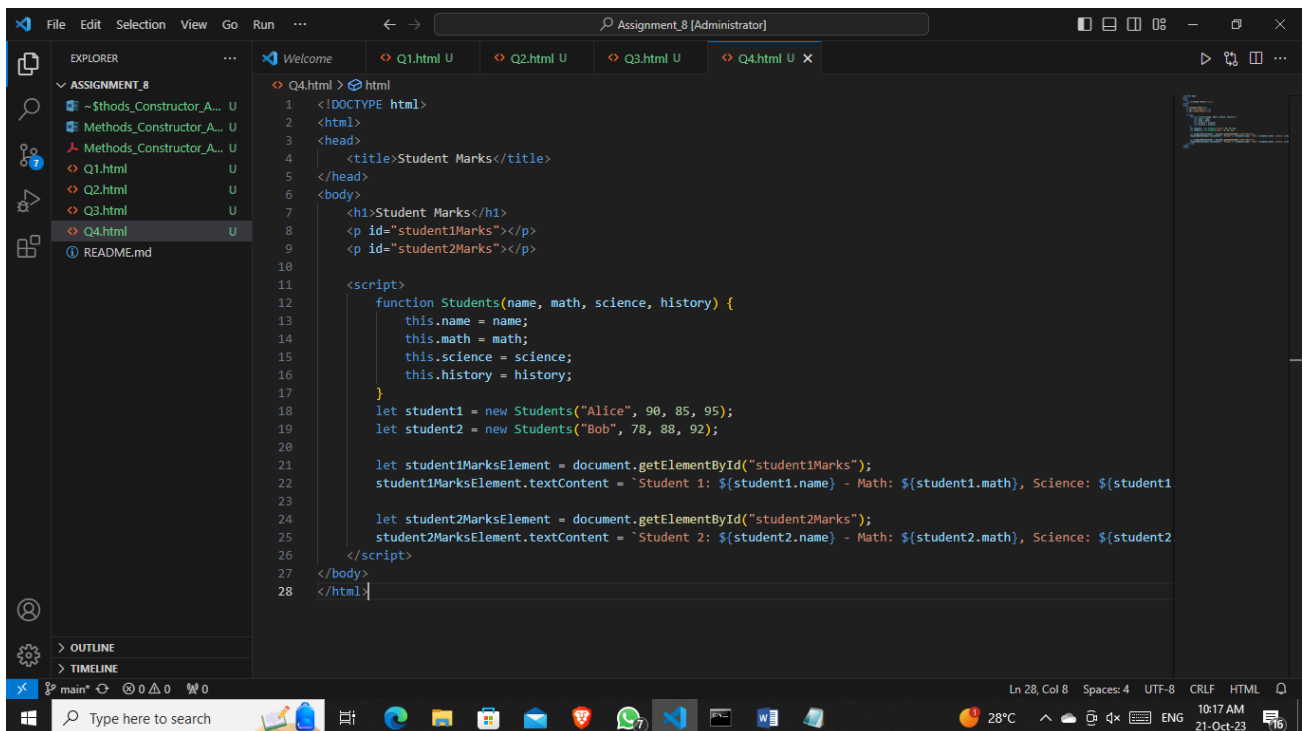


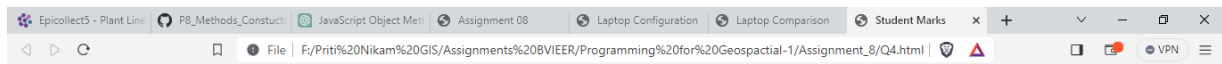
Laptop Comparison

Fastest Laptop: Brand: Dell, Model: XPS, Processor: Intel Core i9, RAM: 32GB, Storage: 1TB SSD



Q4. Create a constructor function called students to create objects having marks for different subjects.





Student Marks

Student 1: Alice - Math: 90, Science: 85, History: 95

Student 2: Bob - Math: 78, Science: 88, History: 92

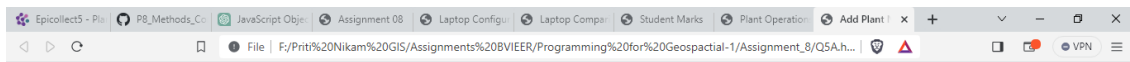


Q5. Create an Array having names of different plants and perform the following operations:

a. Add a new plant name to the array



```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Add Plant Name</title>
5 </head>
6 <body>
7 <h1>Add Plant Name</h1>
8
9 <p id="plantList"></p>
10
11 <script>
12 // Define an array of plant names
13 const plantNames = ["Rose", "Tulip", "Lily", "Sunflower"];
14
15 // Add a new plant name to the array
16 const newPlant = "Daisy";
17 plantNames.push(newPlant);
18
19 // Display the updated array
20 const plantListElement = document.getElementById("plantList");
21 plantListElement.textContent = "Plants in the array: " + plantNames.join(", ");
22 </script>
23 </body>
24 </html>
```

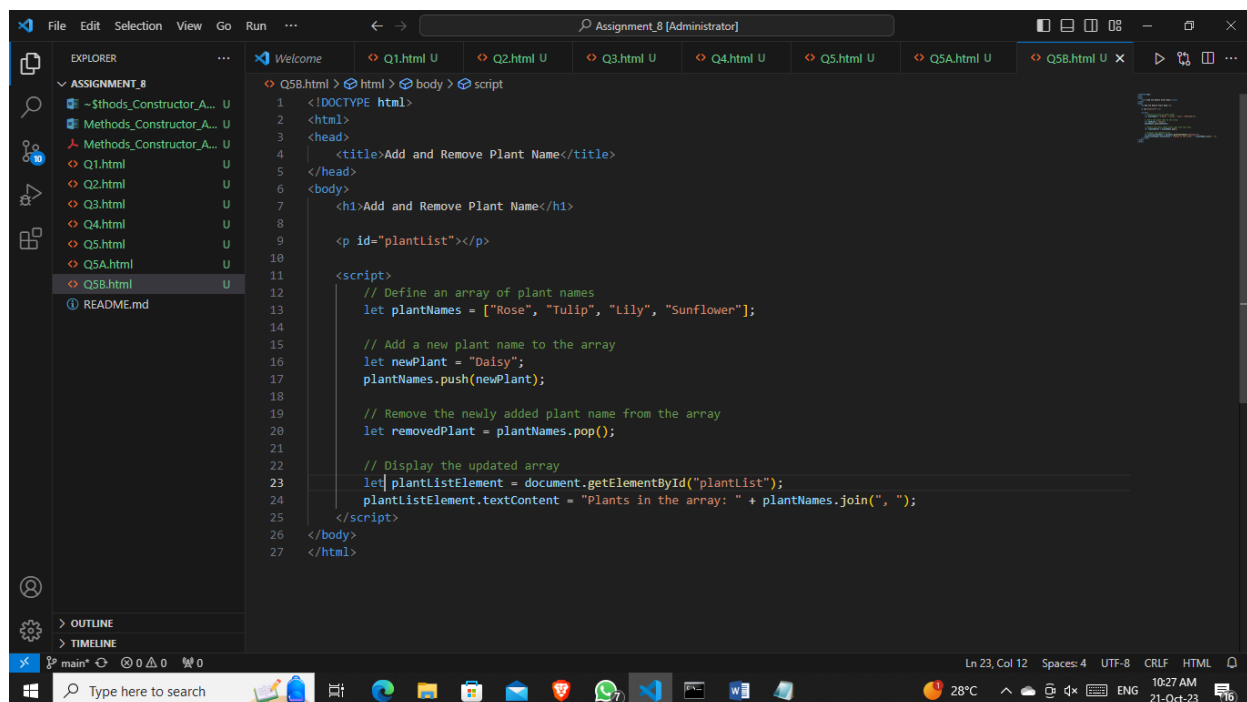


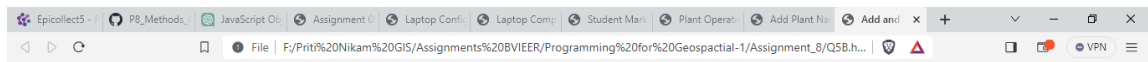
Add Plant Name

Plants in the array: Rose, Tulip, Lily, Sunflower, Daisy



- b. Remove the newly added plant name from the array





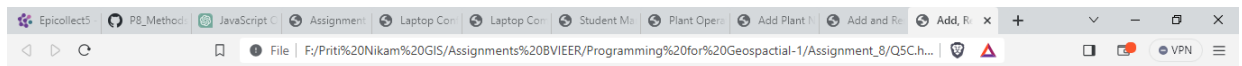
Add and Remove Plant Name

Plants in the array: Rose, Tulip, Lily, Sunflower



- c. Loop through the array and print the name of the plant one by one

```
5 </head>
6 <body>
7   <h1>Add, Remove, and Loop through Plant Names</h1>
8
9   <p id="plantList"></p>
10  <p id="loopResults"></p>
11
12  <script>
13    // Define an array of plant names
14    let plantNames = ["Rose", "Tulip", "Lily", "Sunflower"];
15
16    // Add a new plant name to the array
17    let newPlant = "Daisy";
18    plantNames.push(newPlant);
19
20    // Remove the newly added plant name from the array
21    let removedPlant = plantNames.pop();
22
23    // Display the updated array
24    let plantListElement = document.getElementById("plantList");
25    plantListElement.textContent = "Plants in the array: " + plantNames.join(", ");
26
27    // Loop through the array and print the name of each plant
28    let loopResultsElement = document.getElementById("loopResults");
29    loopResultsElement.textContent = "Plant Names:";
30    plantNames.forEach(function(plant) {
31      loopResultsElement.textContent += "\n" + plant;
32    });
33  </script>
34 </body>
35 </html>
```

Add, Remove, and Loop through Plant Names

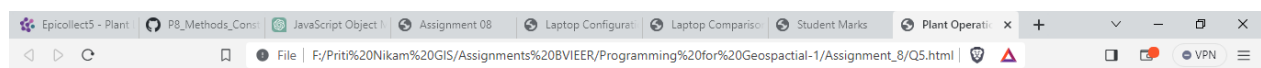
Plants in the array: Rose, Tulip, Lily, Sunflower

Plant Names: Rose Tulip Lily Sunflower



➔ The whole code together.....

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>Plant Operations</title>
5 </head>
6 <body>
7   <h1>Plant Operations</h1>
8
9   <p id="plantlist"></p>
10  <p id="result"></p>
11
12  <script>
13    // Define an array of plant names
14    let plantNames = ["Rose", "Tulip", "Lily", "Sunflower"];
15
16    // Add a new plant name to the array
17    let newPlant = "Daisy";
18    plantNames.push(newPlant);
19
20    // Remove the newly added plant name from the array
21    let removedPlant = plantNames.pop();
22
23    // Display the updated array
24    let plantListElement = document.getElementById("plantlist");
25    plantListElement.textContent = "Plants in the array: " + plantNames.join(", ");
26
27    // Loop through the array and print the name of each plant
28    let resultElement = document.getElementById("result");
29    resultElement.textContent = "Plant Names:";
30    plantNames.forEach(function(plant) {
31      resultElement.textContent += "\n" + plant;
32    });
33  </script>
34 </body>
35 </html>
```



Plant Operations

Plants in the array: Rose, Tulip, Lily, Sunflower

Plant Names: Rose Tulip Lily Sunflower

