## Assignment 1:

In JavaScript, find, forEach, and map are three commonly used array methods. They are used to perform operations on arrays, making it easier to iterate, filter, and transform data. Here's a brief report on each:

### 1.find Method:

Description: The find method is used to retrieve the first element in an array that satisfies a provided testing function.

### Syntax:

array.find(callback(element, index, array), thisArg);

# Example:

```
const numbers = [1, 2, 3, 4, 5];
const evenNumber = numbers.find(num => num % 2 === 0);
console.log(evenNumber); // Output: 2
```

### 2. forEach Method:

// orange

Description: The forEach method executes a provided function once for each array element.

# Syntax: array.forEach(callback(currentValue, index, array), thisArg); Example: const fruits = ['apple', 'banana', 'orange']; fruits.forEach(fruit => console.log(fruit)); // Output: // apple // banana

# 3. map Method:

Description: The map method creates a new array with the results of calling a provided function on every element in the array.

# Syntax:

```
const newArray = array.map(callback(currentValue, index, array),
thisArg);
```

# Example:

```
const numbers = [1, 2, 3, 4, 5];
const squaredNumbers = numbers.map(num => num * num);
console.log(squaredNumbers); // Output: [1, 4, 9, 16, 25]
```