

FSD Lab Program 2

Title: Write Java script program to create objects in javascript.

Problem Description: Create an object student with properties: name (string), grade (number), subjects (array), displayInfo() (method to log the student's details) Write a script to dynamically add a passed property to the student object, with a value of true or false based on their grade. Create a loop to log all keys and values of the student object.

Method: create object Student using literal notation. With given properties and methods. Write a function to check the students grade and add the property to the object dynamically based on grade.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title>Create Object in JavaScript</title>
```

```
</head>
```

```
<body>
```

```
  <h2>Student Information</h2>
```

```
  <div id="output"></div>
```

```
<script>
```

```
  // Step 1: Create the student object using literal notation
```

```
  const student = {
```

```
    name: "Rahul",
```

```
    grade: 40,
```

```
    subjects: ["FSD", "RM", "DBMS"],
```

```
    displayInfo: function() {
```

```
      return "Name: " + this.name + "<br>" +
```

```
        "Grade: " + this.grade + "<br>" +
```

```
        "Subjects: " + this.subjects.join(", ") + "<br>";
```

```
    }
```

```
  };
```

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// Step 2: Function to check grade and add 'passed' property

```
function addPassedProperty(obj) {  
    obj.passed = obj.grade >= 50;  
}
```

// Step 3: Add the property

```
addPassedProperty(student);
```

// Step 4: Display student info using method

```
let result = "<strong>Display Info:</strong><br>" + student.displayInfo();
```

// Step 5: Loop through all properties and display them

```
result += "<br><strong>All Properties:</strong><br>";  
for (let key in student) {  
    if (typeof student[key] !== 'function') {  
        result += key + ": " + student[key] + "<br>";  
    }  
}
```

// Step 6: Show on webpage

```
document.getElementById("output").innerHTML = result;
```

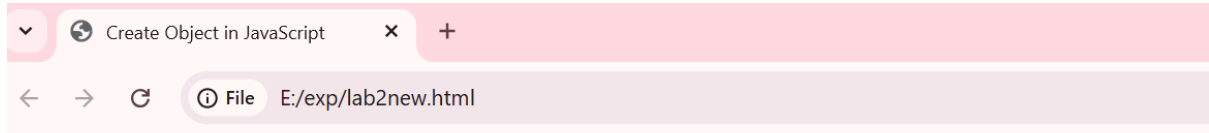
```
</script>
```

```
</body>
```

```
</html>
```

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Output:



Student Information

Display Info:

Name: Rahul

Grade: 40

Subjects: FSD, RM, DBMS

All Properties:

name: Rahul

grade: 40

subjects: FSD,RM,DBMS

passed: false