

• Session 1: Object Methods and the **this** Keyword

What is a Method?

In JavaScript, a method is a function that is a property of an object.

```
const person = {  
  name: "Arta",  
  greet: function() {  
    console.log("Hello, my name is " + this.name);  
  }  
};
```

```
person.greet(); // Output: Hello, my name is Arta
```

The **this** Keyword

- **this** refers to the object that is calling the method.
- Inside an object method, **this** refers to the object itself.

```
const student = {  
  name: "Blerim",  
  age: 17,  
  showInfo: function() {  
    console.log(`Name: ${this.name}, Age: ${this.age}`);  
  }  
};
```

```
student.showInfo(); // Output: Name: Blerim, Age: 17
```

Why Use Methods?

- To organize related behavior inside an object.
- To use **this** to access object properties dynamically.

Practice:

1. Create an object called **car** with properties **brand**, **year**, and a method **displayDetails()** that logs them using **this**.
 2. Create an object called **book** with a method to print its title and author.
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● Session 2: Hands-On: Student Report Card System

Objective:

Build a simple object-based student report card using object methods and `this` keyword.

Instructions:

1. Each student should be represented by an object.
2. Each object should contain:
 - Name
 - Class
 - Grades (as an array)
 - A method to calculate the average
 - A method to determine pass/fail (pass if average ≥ 50)

Example:

```
const student1 = {
  name: "Elira",
  class: "10A",
  grades: [80, 75, 90],

  averageGrade: function() {
    let sum = 0;
    for(let i = 0; i < this.grades.length; i++) {
      sum += this.grades[i];
    }
    return sum / this.grades.length;
  },

  passOrFail: function() {
    const avg = this.averageGrade();
    if (avg >= 50) {
      return `${this.name} has passed.`;
    } else {
      return `${this.name} has failed.`;
    }
  }
};

console.log(student1.averageGrade());
console.log(student1.passOrFail());
```

Task for Students:

- Create 3 student objects.
- Each student should have their own `averageGrade` and `passOrFail` method.
- Print each student's name, average grade, and pass/fail result.