

## 2) Objects and its internal representation in javascript?

### 1) objects

- A JavaScript object is a collection of named values having state and behavior (properties and method).
- For example: student, car, pen, bike etc.

```
const student = {  
  Name: "siva",  
  department: "mech",  
  email: "abc@gmail.com",  
  age: 22,  
  
  marks(m) {  
  
    return (m[0] + m[1] + m[2] + m[3] + m[4]);  
  }  
  
};  
  
let total_marks = student.marks([90, 50, 70, 80, 85]);  
console.log(total_marks);
```

## 2) Object Properties:

- The name:values pairs (in JavaScript objects) are called properties.

```
const student = {  
  Name: "siva",  
  department: "mech",  
  email: "abc@gmail.com",  
  age: 22,  
};
```

Property	Property value
Name	siva
department	mech
email	abc@gmail.com
age	22

- Properties can usually be changed, added, and deleted, but some are read only.

### 1) Adding a property to an object;

//Dot notation

```
student.mobile_number = 9566940955;
```

//Bracket notation

```
student["mobile_numbe"] = 9566940955;
```

## 2) Deleting a property from an object

```
delete student.department;
```

## 3) Access a property from an object

//Dot notation

```
console.log(student.Name); // siva
```

//Bracket notation

```
console.log(student["Name"]); // siva
```

## 4) Change a property from an object

//Dot notation

```
student.department = "IT";
```

//Bracket notation

```
student["department"] = "IT";
```

### 3) Object Methods:

- An object method is an object property containing a function definition.

```
marks(m) {  
  
    return (m[0] + m[1] + m[2] + m[3] + m[4]);  
}
```

#### 1) Access a function from an object

```
console.log(student.marks([90, 50, 70, 80, 85]));
```