FULLSTACK- EXPERIMENT - 3.3

Experiment: Person Class Hierarchy with Student and Teacher Subclasses
Person Class Hierarchy with Student and Teacher Subclasses
AIM
Understand and apply the concept of inheritance in JavaScript by creating a base Person class and extending it into Student and Teacher subclasses.
CODE

```
// Base Person class
class Person {

  constructor(name, age) {
    this.name = name;
    this.age = age;
  }
  displayInfo() {
    console.log(Name: ${this.name}, Age: ${this.age});
  }
}

// Student subclass extending Person
class Student extends Person {
  constructor(name, age, course) {
    super(name, age);
    this.course = course;
  }
  displayInfo() {
    console.log(Student Name: ${this.name}, Age: ${this.age}, Course: ${this.course});
  }
}

// Teacher subclass extending Person
class Teacher extends Person {
  constructor(name, age, subject) {
    super(name, age);
    this.subject = subject;
  }
  displayInfo() {
    console.log(Teacher Name: ${this.name}, Age: ${this.age}, Subject: ${this.subject});
  }
}

// Creating instances
const student1 = new Student('Alice', 20, 'Computer Science');
const teacher1 = new Teacher('Mr. Smith', 40, 'Mathematics');

// Calling methods
student1.displayInfo();
teacher1.displayInfo();
```

OUTPUT

```
Student Name: Alice, Age: 20, Course: Computer Science
Teacher Name: Mr. Smith, Age: 40, Subject: Mathematics
```