

EXP-3.3

AIM- Understand and apply the concept of inheritance in JavaScript (ES6 classes) by creating a base class and extending it into specialized subclasses. This helps build strong foundational skills in object-oriented programming within a modern JavaScript context.

CODE-

```
class Person {
  constructor(name, age) {
    this.name = name;
    this.age = age;
  }

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

class Student extends Person {
  constructor(name, age, course) {
    super(name, age);
    this.course = course;
  }

  displayInfo() {
    super.displayInfo();
    console.log(`Course: ${this.course}`);
  }
}
```

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

```
const student1 = new Student("Alice", 20, "Mathematics");  
const teacher1 = new Teacher("Mr. Bob", 40, "Physics");
```

```
student1.displayInfo();  
teacher1.displayInfo();
```

OUTPUT-

```
----Student Details----  
Name: Sara Kumari, Age: 20  
Student ID: S101, Course: Computer Science  
  
----Teacher Details----  
Name: Dr. Sharma, Age: 45  
Employee ID: T501, Subject: Mathematics
```