OOPs - objects

```
A programming style that is centered around objects rather than functions. const student1 = {
    name: "John",
    class: "5",
    info: () => console.log("I'm John from class 5"),
}

const student2 = {
    name: "Cathy",
    class: "5",
    info: () => console.log("I'm Cathy from class 7"),
}

console.log(student1.name)
console.log(student1.info())
```

OOPs - class

```
class Student {
    constructor (name, class) {
        this.name = name
        this.class = class
    }
    info = () => console.log(this.name,this.class)
}
const student1 = new Student("John", 5)
```

OOPs - Inheritance

```
class Company {
    constructor(dept) {
        this.dept = dept;
    }
    getCompany() {
        return "ABC Inc";
    }
}
class Employee extends Company {
    constructor(dept, name) {
        super(dept);
        this.name = name;
    }
    show() {
        return "I am " + this.name + " from " + this.dept + " department," +
    this.getCompany()
    }
let emp1 = new Employee("HR", "John");
    console.log(emp1.show())
let emp2 = new Employee("IT", "Cathy");
    console.log(emp2.show())
```

OOPs - Encapsulation

```
class Employee {
    #name = "";
    get name() {
       return this.#name;
    }
    set name(value) {
       this.#name = value;
    }
    }
    const emp1 = new Employee();
    emp1.name = "John";
    console.log(emp1.name);
    //console.log(#name)
```

OOPs - Polymorphism

```
class Shape {
          draw() {
                console.log("Draw Shape")
          }
          class Square extends Shape{
                draw() {
                     console.log("Draw Square")
                }
                let sqr = new Square()
                sqr.draw()
                let shp = new Shape()
                shp.draw()
```

OOPs - Abstraction

```
class Circle {
    constructor(length, width) {
        this.length = length;
        this.width = width;
    }
    area() {
        console.log(this.length * this.width);
    }
    let circle = new Circle(4, 5);
    circle.area();
```