**OOPS TASK**

1. Write a “person” class to hold all the details.

class Person {

constructor(firstName, lastName, age, address, email) {

this.firstName = firstName;

this.lastName = lastName;

this.age = age;

this.address = address;

this.email = email;

}

getFullName() {

return `${this.firstName} ${this.lastName}`;

}

getAge() {

return this.age;

}

getAddress() {

return this.address;

}

getEmail() {

return this.email;

}

updateAge(newAge) {

this.age = newAge;

}

updateAddress(newAddress) {

this.address = newAddress;

}

updateEmail(newEmail) {

this.email = newEmail;

}

}

// Creating an instance of the Person class

const person1 = new Person("John", "Doe", 30, "123 Main St, City", "john@example.com");

// Displaying details

console.log("Name:", person1.getFullName());

console.log("Age:", person1.getAge());

console.log("Address:", person1.getAddress());

console.log("Email:", person1.getEmail());

// Updating details

person1.updateAge(31);

person1.updateAddress("456 Park Ave, Town");

person1.updateEmail("johndoe@example.com");

// Displaying updated details

console.log("Updated Age:", person1.getAge());

console.log("Updated Address:", person1.getAddress());

console.log("Updated Email:", person1.getEmail());

1. write a class to calculate the uber price:

class Uber {

constructor(distance, time, baseFare, costPerKilometer, costPerMinute) {

this.distance = distance; // in kilometers

this.time = time; // in minutes

this.baseFare = baseFare; // initial charge

this.costPerKilometer = costPerKilometer;

this.costPerMinute = costPerMinute;

}

calculatePrice() {

const distanceCost = this.distance \* this.costPerKilometer;

const timeCost = this.time \* this.costPerMinute;

const totalCost = this.baseFare + distanceCost + timeCost;

return totalCost;

}

}

// Creating an instance of the Uber class

const ride 1 = new Uber(10, 20, 5, 0.5, 0.1); // 10 km, 20 mins, $5 base, $0.5/km, $0.1/min

// Calculating the ride price

const price = ride1.calculatePrice();

console.log("Uber Ride Price:", price);