Task5

1.class Person {

constructor(firstName, lastName, age, email) {

this.firstName = firstName;

this.lastName = lastName;

this.age = age;

this.email = email;

}

// Method to get full name

getFullName() {

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

}

// Method to get full details

getDetails() {

return {

fullName: this.getFullName(),

age: this.age,

email: this.email

};

}

}

// Example usage:

const person1 = new Person("John", "Doe", 30, "john.doe@example.com");

console.log(person1.getFullName()); // Output: John Doe

console.log(person1.getDetails()); // Output: { fullName: 'John Doe', age: 30, email: 'john.doe@example.com' }

2.class UberPriceCalculator {

constructor(distance, duration, surgeMultiplier = 1) {

this.distance = distance; // in kilometers

this.duration = duration; // in minutes

this.surgeMultiplier = surgeMultiplier; // surge pricing multiplier (default: 1)

}

// Method to calculate the base fare

calculateBaseFare() {

const baseFarePerKm = 1.5; // Base fare per kilometer

const baseFarePerMin = 0.2; // Base fare per minute

return (baseFarePerKm \* this.distance) + (baseFarePerMin \* this.duration);

}

// Method to calculate the total fare including surge pricing

calculateTotalFare() {

const baseFare = this.calculateBaseFare();

return baseFare \* this.surgeMultiplier;

}

}

// Example usage:

const distance = 10; // 10 kilometers

const duration = 20; // 20 minutes

const surgeMultiplier = 1.2; // Surge pricing multiplier

const uberPriceCalculator = new UberPriceCalculator(distance, duration, surgeMultiplier);

const totalFare = uberPriceCalculator.calculateTotalFare();

console.log("Total fare:", totalFare);