1. class Person {

constructor(name, age, gender, occupation) {

this.name = name;

this.age = age;

this.gender = gender;

this.occupation = occupation;

}

introduce() {

return `Hello, my name is ${this.name}, I'm ${this.age} years old. I am a ${this.gender} ${this.occupation}.`;

}

}

// Example usage:

const person1 = new Person("Yuva", 30, "female", "software engineer");

console.log(person1.introduce()); // Output: Hello, my name is Yuva, I'm 30 years old. I am a female software engineer.

1. class UberPriceCalculator {

constructor(distance, duration, surgeMultiplier = 1) {

this.distance = distance; // in miles

this.duration = duration; // in minutes

this.surgeMultiplier = surgeMultiplier; // surge pricing multiplier, default is 1 (no surge)

}

calculatePrice(baseFare, costPerMile, costPerMinute) {

const surgePrice = baseFare \* this.surgeMultiplier;

const distanceCost = costPerMile \* this.distance;

const durationCost = costPerMinute \* this.duration;

return surgePrice + distanceCost + durationCost;

}

}

// Example usage:

const distance = 10; // miles

const duration = 20; // minutes

const surgeMultiplier = 1.5; // surge pricing multiplier

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

const baseFare = 5; // in dollars

const costPerMile = 1.5; // in dollars

const costPerMinute = 0.5; // in dollars

const totalPrice = calculator.calculatePrice(baseFare, costPerMile, costPerMinute);

console.log("Total Uber Price:", totalPrice.toFixed(2), "dollars");