**Question:**

**Scenario: Online Food Delivery System**

Create a JavaScript object to represent a food item in an online food delivery app. The object should include the following:

1. Properties:
   * name (e.g., "Burger")
   * restaurant (e.g., "Foodies Hub")
   * price
   * isAvailable
2. Methods:
   * displayDetails() – to print the item name, restaurant, and price.
   * applyDiscount(percent) – to reduce the price by a given percentage.

**🧪 Tasks:**

1. Create two different food item objects.
2. Display their details using the method.
3. Apply a discount and show updated prices.

**✅ Expected Output Example:**

Burger from Foodies Hub costs ₹150

After 10% discount: ₹135

**1. 🧑‍🎓 Student Record System**

**Question:**

Create a student object that stores:

* name
* rollNumber
* course
* marks

**Methods:**

* displayInfo() – Show all student details.
* isPassed() – Return true if marks ≥ 40, otherwise false.

🧪 *Create 2 students and check who passed.*

**2. 🚗 Vehicle Info System**

**Question:**

Create a car object with the following properties:

* brand
* model
* price
* isElectric

**Methods:**

* displayCar() – Print full car details.
* applyTax(percent) – Add tax to the price.

🧪 *Display the price before and after adding 18% tax.*

**3. 🏨 Hotel Booking System**

**Question:**

Create a room object with:

* roomNumber
* type (e.g., "Deluxe", "Standard")
* pricePerNight
* isBooked

**Methods:**

* bookRoom() – Set isBooked to true
* calculateBill(nights) – Return total amount for given nights

🧪 *Book a room and calculate the total bill for 3 nights.*

**4. 🛍️ E-commerce Product System**

**Question:**

Create a product object with:

* productName
* category
* price
* stockQuantity

**Methods:**

* showProduct() – Show product details
* purchase(quantity) – Reduce stock by purchased quantity and return total cost

🧪 *Try purchasing 2 units and show updated stock and bill.*