**1. Office Supplies (Pens & Pencils)**

**Class:**

* Pen
* Pencil

**Objects:**

* Pen: Parker, Blue, Gel
* Pencil: Apsara, 2B, With Eraser

**Properties:**

* **Pen**: brand, color, inkType
* **Pencil**: brand, hardness, hasEraser

**Methods:**

* write()
* getDetails()

**2. Library System**

**Class:**

* Book
* Library
* User

**Objects:**

* Book: "Harry Potter", J.K. Rowling, Fantasy
* User: John Doe

**Properties:**

* **Book**: title, author, genre, isAvailable
* **User**: name, borrowedBooks[]

**Methods:**

* borrowBook()
* returnBook()
* searchBook()

**3. Car Showroom**

**Class:**

* Car
* Customer

**Objects:**

* Car: Toyota Fortuner, Black, Diesel, $30,000
* Customer: Alex

**Properties:**

* modelName, color, fuelType, price

**Methods:**

* displayCarDetails()
* purchaseCar()

**4. Online Food Ordering System**

**Class:**

* FoodItem
* Order
* User

**Properties:**

* **FoodItem**: name, price, category
* **Order**: items[], totalAmount, status

**Methods:**

* placeOrder()
* calculateTotal()

**5. Mobile Phone Shop**

**Class:**

* MobilePhone
* Customer

**Properties:**

* brand, model, RAM, price

**Methods:**

* buyPhone()
* showDetails()

**6. Movie Ticket Booking System**

**Class:**

* Movie
* Ticket
* User

**Methods:**

* bookTicket()
* cancelTicket()
* checkSeats()

**7. Hospital Management System**

**Class:**

* Doctor
* Patient

**Properties:**

* **Doctor**: name, specialization, experienceYears
* **Patient**: name, age, disease

**Methods:**

* consultPatient()
* prescribeMedicine()

**8. E-Commerce Website**

**Class:**

* Product
* Cart
* User

**Methods:**

* addToCart()
* purchase()

**9. Banking System**

**Class:**

* BankAccount
* Customer

**Methods:**

* deposit()
* withdraw()
* checkBalance()

**10. Student Management System**

**Class:**

* Student
* Course

**Methods:**

* enroll()
* checkMarks()

**11. Taxi Booking App**

**Class:**

* Car
* Driver
* Ride

**Methods:**

* bookRide()
* cancelRide()

**12. Gaming System**

**Class:**

* Player

**Methods:**

* earnPoints()
* levelUp()

**13. Hotel Management System**

**Class:**

* Room
* Customer

**Methods:**

* bookRoom()
* checkIn()
* checkOut()

**14. Weather Forecast System**

**Class:**

* WeatherReport

**Methods:**

* getWeather()

**15. Smart Home Automation**

**Class:**

* Device

**Methods:**

* turnOn()
* turnOff()

**16. Social Media Platform**

**Class:**

* User
* Post

**Methods:**

* sendMessage()
* likePost()

**17. Flight Booking System**

**Class:**

* Flight
* Passenger

**Methods:**

* bookFlight()
* cancelBooking()

**18. Music Player App**

**Class:**

* Song
* Playlist

**Methods:**

* play()
* pause()
* skip()

**19. Supermarket Billing System**

**Class:**

* Product
* Bill

**Methods:**

* generateBill()

**20. Online Learning Platform**

**Class:**

* Course
* Student

**Methods:**

* enrollCourse()
* completeCourse()