/\*1) Build a class Student which contains details about the Student and compile and run its instance. \*/

/\*

public class Student {

// Member variables

public String name;

public int age;

public String id;

// Constructor i will be used in this

public Student(String name, int age, String id) {

this.name = name;

this.age = age;

this.id = id;

}

// Method to display student details

public void displayDetails() {

System.out.println("Name: " + name);

System.out.println("Age: " + age);

System.out.println("ID: " + id);

}

public static void main(String[] args) {

// Creating an instance of Student class

Student student1 = new Student("Abhijeet", 25, "12345");

// Displaying details of student

System.out.println("Details of student1:");

student1.displayDetails();

}

}

\*/

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/\* 2)Write a Vehicle class with overloaded methods that have a different number of parameters.Demonstrate calling these overloaded methods with various numbers of arguments. \*/

/\*

public class Vehicle {

private String company;

private String model;

public Vehicle(String company, String model) {

this.company = company;

this.model = model;

}

public void drive() {

System.out.println("Driving: " + company + " " + model);

}

public void drive(int speed) {

System.out.println("Driving at " + speed + " km/h: " + company + " " + model);

}

public void drive(int speed, String direction) {

System.out.println("Driving at " + speed + " km/h in " + direction + " direction: " + company + " " + model);

}

public static void main(String[] args) {

Vehicle car = new Vehicle("Maruti", "Dzire");

car.drive();

car.drive(50);

car.drive(70, "west");

}

}

\*/

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/\* 3)Create a class Employee with multiple overloaded methods that have different parameter types (e.g.,int, double, String). Demonstrate calling each overloaded method with appropriate arguments. \*/

public class Employee {

public void displayDetails(int employeeId) {

System.out.println("Employee ID: " + employeeId);

}

public void displayDetails(double salary) {

System.out.println("Employee Salary: $" + salary);

}

public void displayDetails(String employeeName) {

System.out.println("Employee Name: " + employeeName);

}

public static void main(String[] args) {

Employee emp = new Employee();

emp.displayDetails(1);

emp.displayDetails(800000);

emp.displayDetails("Abhijeet");

}

}