1.

```
import java.util.*;
class Book{
  void disp(){

  }

}

class MyBook extends Book{
   String title,author;
     int price;
   MyBook(String title,String author,int price){
      this.title = title;
      this.author = author;
      this.price = price;
   }
   public void disp(){
       System.out.println(title+" "+author+" "+price);
   }
}
public class Main
{
          public static void main(String[] args) {
       Scanner sc = new Scanner(System.in);
       String title = sc.nextLine();
       String author = sc.nextLine();
       int price = sc.nextInt();
       MyBook b = new MyBook(title,author,price);
       b.disp();
          }
}
```

2.

```
import java.util.Scanner;

class Vehicle {
   protected String type;

   public Vehicle(String type) {
```

```
        this.type = type;
    }

    public void displayType() {
        System.out.println("Type: " + type);
    }
}

class Car extends Vehicle {
    private String brand;

    public Car(String type, String brand) {
        super(type);
        this.brand = brand;
    }

    public void displayBrand() {
        System.out.println("Brand: " + brand);
    }
}

public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        String type = sc.nextLine();
        String brand = sc.nextLine();

        Car car = new Car(type, brand);
        car.displayType();
        car.displayBrand();
    }
}
```

3.

```
import java.util.*;
public class Main
{
        public static void main(String[] args) {
                Scanner sc = new Scanner(System.in);
                String empid = sc.next();
                float salary = sc.nextFloat();
```

```
                emplevel e = new emplevel(empid,salary);
        }
}


class Employee{
   String empid; float salary;

}

class emplevel extends Employee{
   emplevel(String empid,float salary){
      this.empid = empid;
      this.salary=salary;import java.util.*;

public class Main {
   public static void main(String[] args) {
      Scanner sc = new Scanner(System.in);
      String empid = sc.next();
      float salary = sc.nextFloat();
      emplevel e = new emplevel(empid, salary);
      e.display();
   }
}

class Employee {
   String empid;
   float salary;
}

class emplevel extends Employee {
   emplevel(String empid, float salary) {
      this.empid = empid;
      this.salary = salary;
   }

   // Method to display employee details and level
   void display() {
      System.out.println("Employee ID: " + empid);
      System.out.println("Salary: " + salary);
      if (salary < 100) {
         System.out.println("Level: 1");
      } else {
         System.out.println("Level: 2");
```

```
        }
    }
}


    }
    System.out.println(empid);
    System.out.println(salary);
    if(salary< 100){
        System.out.println(2);
    }
    else{
       System.out.println(2);
    }

}
```
4.

```
import java.util.Scanner;

class Account {
    private int account_number;
    private int account_balance;
    Account(int account_number,int account_balance){
        this.account_number = account_number;
        this.account_balance = account_balance;
    }
    public int getAccountNumber() {
        return account_number;
    }

    public int getAccountBalance() {
        return account_balance;
    }

}

class User extends Account {
    private String username;

    User(String username,int account_number,int account_balance){
        super(account_number,account_balance);
```

```
        this.username = username;

    }


}

public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        User u[] = new User[n];
        for(int i=0;i<n;i++){
        String username = sc.nextLine();
        sc.nextLine();
        int account_number =sc.nextInt();
       int account_balance = sc.nextInt();
            u[i] = new User(username,account_number,account_balance);
        }
       int check = sc.nextInt();
        boolean found = false;
        for(int i = 0; i < n; i++) {
            if(u[i].getAccountNumber() == check) {
                found = true;
                System.out.println("BALANCE: " + u[i].getAccountBalance());
                break;
            }
        }

        if(!found) {
            System.out.println("User does not exist");
        }
    }
}
```

5.

```
import java.util.Scanner;

class Employee {
    private String eName;
    private int eId;
    private int eSalary;
```

```
    static String companyName = "ABC Corp";
    public Employee(String eName, int eId, int eSalary) {
        this.eName = eName;
        this.eId = eId;
        this.eSalary = eSalary;
    }
    public String getEName() {
        return eName;
    }

    public void setEName(String eName) {
        this.eName = eName;
    }

    public int getEId() {
        return eId;
    }

    public void setEId(int eId) {
        this.eId = eId;
    }

    public int getESalary() {
        return eSalary;
    }

    public void setESalary(int eSalary) {
        this.eSalary = eSalary;
    }

    public static String getCompanyName() {
        return companyName;
    }

    public static void setCompanyName(String name) {
        companyName = name;
    }
}

public class Main {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        int n = scanner.nextInt();
        scanner.nextLine();
```

```
        Employee[] employees = new Employee[n];
        for (int i = 0; i < n; i++) {
            String name = scanner.nextLine();
            int id = scanner.nextInt();
            int salary = scanner.nextInt();
            scanner.nextLine();
            employees[i] = new Employee(name, id, salary);
        }
        for (Employee employee : employees) {
            System.out.println("Employee Name: " + employee.getEName());
            System.out.println("Employee ID: " + employee.getEId());
            System.out.println("Employee Salary: " + employee.getESalary());
            System.out.println("Employee Company Name: " + Employee.getCompanyName());
        }

        String updatedCompanyName = scanner.nextLine();
        Employee.setCompanyName(updatedCompanyName);

        System.out.println("Updated Details");
        for (Employee employee : employees) {
            System.out.println("Employee Name: " + employee.getEName());
            System.out.println("Employee ID: " + employee.getEId());
            System.out.println("Employee Salary: " + employee.getESalary());
            System.out.println("Employee Company Name: " + Employee.getCompanyName());
        }


    }
}
```