```
Solution:1
```

```
package task2;
class PersonTask1 {
 int age=25;
 String name;
 public void displayDetails(){
   System.out.println("Person age is"+" "+this.age);
   System.out.println("Person name is"+" "+name);
 }
 public PersonTask1(int age,String name){
   this.age=age;
   this.name=name;
 }
 public static void main(String[] args) {
   PersonTask1 person=new PersonTask1(25,"Vamsi");
   person.displayDetails();
 }
}
Output:
Person age is 25
Person name is Vamsi
Solution 2:-
package task2;
import java.util.Scanner;
```

```
public class XYZ {
 // Method to calculate total amount spent on all products
  public static double calculateTotalAmount(Product[] products) {
    double totalAmount = 0;
   for (Product product : products) {
     totalAmount += product.getPrice() * product.getQuantity();
   }
   return totalAmount;
 }
  public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
   // Array to store 5 products
    Product[] products = new Product[5];
   // Accept 5 product details from the user
   for (int i = 0; i < 5; i++) {
     System.out.println("Enter details for product" + (i + 1) + " (pid, price, quantity):");
     int pid = scanner.nextInt();
     double price = scanner.nextDouble();
     int quantity = scanner.nextInt();
     // Create a product and add it to the array
     products[i] = new Product(pid, price, quantity);
   }
   // Find the product ID (pid) with the highest price
    int maxPricePid = products[0].getPid();
    double maxPrice = products[0].getPrice();
   for (Product product : products) {
     if (product.getPrice() > maxPrice) {
       maxPrice = product.getPrice();
       maxPricePid = product.getPid();
     }
   }
```

```
System.out.println("Product ID with the highest price: " + maxPricePid);

// Calculate and display the total amount spent
double totalAmount = calculateTotalAmount(products);

System.out.println("Total amount spent on all products: " + totalAmount);

}
```

```
package task2;
import java.util.Scanner;
class Product {
   private int pid;
   private double price;
   private int quantity;
   public Product(int pid, double price, int quantity) {
       this.pid = pid;
       this.price = price;
       this.quantity = quantity;
   public int getPid() {
        return pid;
   public double getPrice() {
       return price;
   public int getQuantity() {
        return quantity;
    public static class Xyz {
        public static double calculateTotalAmount(Product[] products) {
            double totalAmount = 0;
            for (Product product : products) {
```

```
totalAmount += product.getPrice() * product.getQuantity();
            return totalAmount;
        public static void main(String[] args) {
            Scanner scanner = new Scanner(System.in);
            // Array to store 5 products
            Product[] products = new Product[5];
            // Accept 5 product details from the user
            for (int i = 0; i < 5; i++) {
                System.out.println("Enter details for product " + (i + 1) + " (pid,
price, quantity):");
                int pid = scanner.nextInt();
                double price = scanner.nextDouble();
                int quantity = scanner.nextInt();
                products[i] = new Product(pid, price, quantity);
            int maxPricePid = products[0].getPid();
            double maxPrice = products[0].getPrice();
            for (Product product : products) {
                if (product.getPrice() > maxPrice) {
                    maxPrice = product.getPrice();
                    maxPricePid = product.getPid();
            System.out.println("Product ID with the highest price: " + maxPricePid);
            double totalAmount = calculateTotalAmount(products);
            System.out.println("Total amount spent on all products: " + totalAmount);
```

Output:

Enter details for product 1 (pid, price, quantity):
1
10
2
Enter details for product 2 (pid, price, quantity):
2
20
3
Enter details for product 3 (pid, price, quantity):
3
30
4
Enter details for product 4 (pid, price, quantity):
4
40
5
Enter details for product 5 (pid, price, quantity):
5
50
6
Product ID with the highest price: 5
Total amount spent on all products: 700.0
Solution 3:

```
package task2;
import java.util.Scanner;
class Account {
   private double balance;
    // Constructor with no argument
   public Account() {
       this.balance = 0;
   // Constructor with two arguments
   public Account(double balance) {
        this.balance = balance;
   public void deposit(double amount) {
       this.balance += amount;
   // Method to withdraw the amount from the account
   public void withdraw(double amount) {
        if (amount > this.balance) {
            System.out.println("Insufficient balance.");
            this.balance -= amount;
   public void displayBalance() {
       System.out.println("Balance: " + this.balance);
public class AccountMain {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        Account account = new Account();
        while (true) {
            System.out.println("\nChoose an option:");
            System.out.println("1. Deposit");
            System.out.println("2. Withdraw");
            System.out.println("3. Display Balance");
            System.out.println("4. Exit");
```

```
int choice = scanner.nextInt();
switch (choice) {
        System.out.print("Enter deposit amount: ");
       double depositAmount = scanner.nextDouble();
        account.deposit(depositAmount);
        break;
        System.out.print("Enter withdraw amount: ");
       double withdrawAmount = scanner.nextDouble();
        account.withdraw(withdrawAmount);
        break;
        account.displayBalance();
       break;
    case 4:
        System.out.println("Exiting...");
        System.exit(0);
    default:
        System.out.println("Invalid option.");
```

Output:

Choose an option:

1. Deposit

2. Withdraw

3. Display Balance

4. Exit

1

Enter deposit amount: 1000

Choose an option:

1. Deposit
2. Withdraw
3. Display Balance
4. Exit
2
Enter withdraw amount: 200
Choose an option:
1. Deposit
2. Withdraw
3. Display Balance
4. Exit
3
Balance: 800.0
Choose an option:
1. Deposit
2. Withdraw
3. Display Balance
4. Exit
4
Exiting
Process finished with exit code 0

Solution 4:

```
package task2;

public class Person {
    String name;
    int age;
}
```

```
public class Employee extends Person{
   int employeeID;
   double salary;
   public Employee(String name,int age){
       System.out.println("Employee name is"+(super.name=name));
       System.out.println("Employee age is"+(super.age=age));
   }
   public static void main(String[] args) {
       Employee em=new Employee("Vamsi",25);
   }
}
```

Output:

Employee name is Vamsi

Employee age is 25