

```

/*
 * ID:
 * NAME:ABDULRAHMAN ALMAYMAN
 * DAY4
 * CSC111
 * HW2
 */
public class Stock {
    private String symbol;
    private String name;
    private double previousClosingPrice;
    private double currentPrice;
    // Methods
    public void setSymbol(String newSymbol){
        symbol = newSymbol;
    }
    public String getSymbol() {
        return symbol;
    }
    public void setName(String newName){
        name = newName;
    }
    public String getName() {
        return name;
    }
    public void setCurrentPrice(double newCurrentPrice) {
        currentPrice = newCurrentPrice;
    }
    public void setPreviousClosingPrice(double
newPreviousClosingPrice) {
        previousClosingPrice = newPreviousClosingPrice;
    }
    public double getChangePercent() {
        return (currentPrice - previousClosingPrice) /
previousClosingPrice;
    }
    public double getPreviousClosingPrice() {

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        return previousClosingPrice;
    }
    public double getCurrentPrice() {
        return currentPrice;
    }
}
```

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/*
 * ID:
 * NAME:ABDULRAHMAN ALMAYMAN
 * DAY4
 * CSC111
 * HW2
 */
import java.util.Locale;
import java.util.Scanner;
import java.util.Scanner;
import java.util.Locale;
public class testStock {

    public static void main(String[] args) {
        Scanner input = new
Scanner(System.in).useLocale(Locale.US);
        Stock stock = new Stock();
        System.out.print("Enter symbol of stock:");
        stock.setSymbol(input.next());
        System.out.print("Enter company name:");
        stock.setName(input.next());
        System.out.print("Enter previous closing price:");
        double prevPrice = input.nextDouble();
        stock.setPreviousClosingPrice(prevPrice);
        System.out.print("Enter curret price:");
        double currentPrice = input.nextDouble();
        stock.setCurrentPrice(currentPrice);

        System.out.println("#####
##### THE INFORMATION
#####
#####");
        // Display stock info
        System.out.println("For the stock "+stock.getSymbol()+" of
the company "+stock.getName()+" :");
        System.out.println("Previous Closing Price: "+
stock.getPreviousClosingPrice());
    }
}

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        System.out.println("Current Price: " +  
stock.getCurrentPrice());  
        System.out.println("Price Change: " +  
stock.getChangePercent() * 100 + "%");  
    }  
}
```

```
/*
 * ID:
 * NAME:ABDULRAHMAN ALMAYMAN
 * DAY4
 * CSC111
 * HW2
 */
public class Student {
    //Attributes
    private String name;
    private int age;
    private double GPA;
    // Methods
    public Student() {
    }
    public Student(String name, int age, double GPA) {
        this.name = name;
        this.age = age;
        this.GPA = GPA;
    }
    public void setName(String name){
        this.name = name;
    }
    public String getName(){
        return name;
    }
    public void setAge(int age){
        this.age = age;
    }
    public int getAge(){
        return age;
    }
    public void setGPA(double GPA){
        this.GPA = GPA;
    }
    public double getGPA(){
        return GPA;
    }
}
```

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    }
    public void printInfo() {

        System.out.println("#*****
*****
*****#");

        System.out.println("-----
-----THE STUDENT INFORMATION-----
-----");
        System.out.println("Student name: "+name);
        System.out.println("Student age: "+age);
        System.out.println("Student GPA: "+GPA);
        System.out.println("-----
-----");

        System.out.println("#*****
*****
*****#");

    }
}

```

```

/*
 * ID:
 * NAME:ABDULRAHMAN ALMAYMAN
 * DAY4S
 * CSC111
 * HW2
 */
import java.util.Locale;
import java.util.Scanner;
import java.util.Scanner;
import java.util.Locale;
public class testStudent {

    public static void main(String[] args) {
        Scanner input = new
Scanner(System.in).useLocale(Locale.US);
        // Using empty constructor
        Student s1 = new Student ();
        System.out.print("Please enter the name, age and GPA ");
        s1.setName(input.next());
        s1.setAge(input.nextInt());
        s1.setGPA(input.nextDouble());
        // Print student info
        s1.printInfo();
        // Using second constructor
        System.out.print("Please enter the name, age and GPA ");
        Student s2 = new Student(
input.next(),input.nextInt(),input.nextDouble());
        // Print student info
        s2.printInfo();
        // Print student info using getters

        System.out.println("#####
#####
#####");

        System.out.println("#####

```

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#####
#####");
        System.out.println("The first student name is
"+s1.getName()+" and his age is "+s1.getAge()+" his GPA is
"+s1.getGPA());
        System.out.println("The second student name is
"+s2.getName()+" and his age is "+s2.getAge()+" his GPA is
"+s2.getGPA());
        // Which student has a higher GPA?
        //if the same it should tell me that
        if (s1.getGPA() > s2.getGPA()) {
            System.out.println(s1.getName()+" has a higher GPA than
"+s2.getName());
        }
        else if (s1.getGPA() < s2.getGPA()) {
            System.out.println(s2.getName()+" has a higher GPA than
"+s1.getName());
        }
        else {
            System.out.println(s1.getName()+" and
"+s2.getName()+" have same GPA");
        }
        input.close();
    }
}

```