Lab#08

Ex-1(Part 2 Solution)

```
class Student
{
// data members
private String  studName;
private int  studAge;
private double studGPA;
// Set Student Name
public void setName(String studentName)
{
studName = studentName;
}
// Set the student age
public void setAge(int studentAge)
{
studAge = studentAge;
}

//Set the student GPA
public void setGPA(double studentGPA)
{
studGPA = studentGPA;
}
//getName()
//return student name
public String getName()
{
return studName;
}
//getAge()
//return student age
public int getAge()
{
return studAge;
}
//getGPA()
//return student GPA
public double getGPA()
{
return studGPA;
}

}// Class Student Close
```

```
//class TestStudent ,main class
//tests the Student class above
public class TestStudent
     {
public static void main(String[] args)
        {
    //create objects
Student s1 = new Student();
Student s2 = new Student();
    /*set values to methods */
s1.setName("Saleh");
s1.setAge(22);
s1.setGPA(-3.4);


s2.setName("Ali");
s2.setAge(25);
s2.setGPA(-3.4);
   //print the student information
System.out.println("Student Name:\t" + s1.getName());
System.out.println("Student age:\t"  + s1.getAge());
System.out.println("Student age:\t" + s1.getGPA());

System.out.println("--------------------------");
System.out.println("Student Name:\t" + s2.getName());
System.out.println("Student age:\t"  + s2.getAge());
System.out.println("Student age:\t" + s2.getGPA());
System.out.println("--------------------------");

}
}
```

Ex-1(Part 3 Solution)

```
class Student
{
// data members
private String  studName;
private int  studAge;
private double studGPA;
// Set Student Name
public void setName(String studentName)
{
studName = studentName;
}
// Set the student age
public void setAge(int studentAge)
{
studAge = studentAge;
}
```

```
//Set the student GPA
public void setGPA(double studentGPA)
{
	if(studentGPA>=0)
		studGPA=studentGPA;
	else
		System.out.println("The new value of student GPA:"+studentGPA+"is not
an acceptable value , Plz Try Again ");
studGPA = studentGPA;
}
//getName()
//return student name
public String getName()
{
return studName;
}
//getAge()
//return student age
public int getAge()
{
return studAge;
}
//getGPA()
//return student GPA
public double getGPA()
{
return studGPA;
}

}// Class Student Close

//class TestStudent ,main class
//tests the Student class above
public class TestStudent
     {
public static void main(String[] args)
        {
    //create objects
Student s1 = new Student();
Student s2 = new Student();
    /*set values to methods */
s1.setName("Saleh");
s1.setAge(22);
s1.setGPA(-3.4);


s2.setName("Ali");
s2.setAge(25);
s2.setGPA(-3.4);
   //print the student information
System.out.println("Student Name:\t" + s1.getName());
System.out.println("Student age:\t"  + s1.getAge());
System.out.println("Student age:\t" + s1.getGPA());
```

```
System.out.println("--------------------------");
System.out.println("Student Name:\t" + s2.getName());
System.out.println("Student age:\t"  + s2.getAge());
System.out.println("Student age:\t" + s2.getGPA());
System.out.println("--------------------------");

}
}
```

Ex-2:-

```
public class Stock {
	private String symbol;
	private String name;
	private double currentPrice;
	private double previousClosingPrice;
	public double getChangePercent(){
		return (currentPrice*100/previousClosingPrice)-100;
	}
	public void setSymbol(String sy){
		symbol = sy;
	}
	public void setName(String na){
		name = na;
	}
	public void setCurrentPrice(double cprice){
		currentPrice = cprice;
	}
	public void setPreviousClosingPrice(double preprice){
		previousClosingPrice = preprice;
	}
	public double getPreviousClosingPrice() {
		return previousClosingPrice;
	}
	public double getCurrentPrice(){
		return currentPrice;
	}



}
```

```java
import java.util.Scanner;
public class TestStock {
	public static void main(String[] args) {
		Scanner input = new Scanner(System.in);
		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:");
		stock.setPreviousClosingPrice(input.nextDouble());
		System.out.print("Enter curret price:");
		stock.setCurrentPrice(input.nextDouble());
		/* Display stock info */
System.out.println("Previous Closing Price: "+stock.getPreviousClosingPrice()
		+"\nCurrent Price: "+stock.getCurrentPrice()+"\nPrice Change:
		"+stock.getChangePercent()+"%");
	}
}
```