Module-2

Assignment-3

CODE:

thomas_shouts class:

```
package Module_2;
import java.io.*;
public class thomas_shouts {
	String ch;
	int n;
	double m;
	double e;
	double h;
	double s;
	double ss;
	thomas_shouts(){
		ch=" ";
		n=0;
		m=0.00;
		e=0.00;
		h=0.00;
		s=0.00;
		ss=0.00;
	}
	void calculate()throws IOException{
		InputStreamReader isr=new InputStreamReader(System.in);
		BufferedReader br=new BufferedReader(isr);
		System.out.println("Enter the number of students: ");
		int n=Integer.parseInt(br.readLine());
		int i;
		double sum=0.00,avg;
		for(i=0;i<n;i++) {
			System.out.println("Enter 'Yes' to continue and 'No' to
stop.");
			System.out.println("Enter the user's choice: ");
			String ch=br.readLine();
			switch(ch) {
				case "Yes":System.out.println("Enter the marks in
Mathematics: ");
double
m=Double.parseDouble(br.readLine());
System.out.println("Enter the
marks in English: ");
double
e=Double.parseDouble(br.readLine());
System.out.println("Enter the
marks in Hindi: ");
double
h=Double.parseDouble(br.readLine());
System.out.println("Enter the
marks in Science: ");
double
s=Double.parseDouble(br.readLine());
```

```
                                        System.out.println("Enter the
marks in Social Science: ");
                                        double
ss=Double.parseDouble(br.readLine());

      if((m>=0.00&&m<=100.00)&&(e>=0.00&&e<=100.00)&&(h>=0.00&&h<=100.00)&&
(s>=0.00&&s<=100.00)&&(ss>=0.00&&ss<=100.00)) {
                                        sum=m+e+h+s+ss;
                                        avg=sum/5;
                                        if(avg>=90.00) {

      System.out.println("Excellent");
                                        }
                                        else if(avg>=80&&avg<90) {
                                              System.out.println("Very
Good");
                                        }
                                        else if(avg>=60&&avg<80) {
                                              System.out.println("Good");
                                        }
                                        else if(avg>=40&&avg<60) {

      System.out.println("Average");
                                        }
                                        else {
                                              System.out.println("Poor");
                                        }
                                  }
                                  else {
                                        System.out.println("Please enter
a valid marks of the students.");
                                  }
                                        break;
                        case "No":System.out.println("The user chose to
exit.");
                                        break;
                        default:System.out.println("Enter the valid
choice.");
                  }
            }
      }
}
```

thomas_shouts_main class(driver code):

```
package Module_2;
import java.io.*;
public class thomas_shouts_main {
      public static void main(String args[])throws IOException{
            InputStreamReader isr=new InputStreamReader(System.in);
            BufferedReader br=new BufferedReader(isr);
            thomas_shouts ob=new thomas_shouts();
            ob.calculate();
      }
}
```

OUTPUT:

```
Enter the number of students:
2
Enter 'Yes' to continue and 'No' to stop.
Enter the user's choice:
Yes
Enter the marks in Mathematics:
45
Enter the marks in English:
60
Enter the marks in Hindi:
75
Enter the marks in Science:
80
Enter the marks in Social Science:
40
Good
Enter 'Yes' to continue and 'No' to stop.
Enter the user's choice:
No
The user chose to exit.
```