**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.