**Java Mini Project – Exam System**

import java.io.\*;

class var

{

int rollno,total;

String name;

int sub1,sub2,sub3,sub4,sub5;

float per;

String div;

}

class s extends var

{

void addStudent() throws IOException

{

InputStreamReader ir = new InputStreamReader(System.in);

BufferedReader br = new BufferedReader(ir);

System.out.println("\nEnter Details of Student");

System.out.print("Enter Student Name: ");

name = br.readLine();

System.out.print("Enter Student Roll No: ");

rollno = Integer.parseInt(br.readLine());

}

void addMarks() throws IOException

{

InputStreamReader ir = new InputStreamReader(System.in);

BufferedReader br = new BufferedReader(ir);

System.out.print("Enter marks of M3: ");

sub1 = Integer.parseInt(br.readLine());

if(sub1<0 || sub1>100) {System.out.println("Range should be from 0 to 100"); addMarks();}

System.out.print("Enter marks of DATA: ");

sub2 = Integer.parseInt(br.readLine());

if(sub2<0 || sub2>100) {System.out.println("Range should be from 0 to 100"); addMarks();}

System.out.print("Enter marks of DIS: ");

sub3 = Integer.parseInt(br.readLine());

if(sub3<0 || sub3>100) {System.out.println("Range should be from 0 to 100"); addMarks();}

System.out.print("Enter marks of DLDA: ");

sub4 = Integer.parseInt(br.readLine());

if(sub4<0 || sub4>100) {System.out.println("Range should be from 0 to 100"); addMarks();}

System.out.print("Enter marks of ECCF: ");

sub5 = Integer.parseInt(br.readLine());

if(sub5<0 || sub5>100) {System.out.println("Range should be from 0 to 100"); addMarks();}

if(sub1>=29 && sub1<=31) {sub1=32;}

if(sub2>=29 && sub2<=31) {sub2=32;}

if(sub3>=29 && sub3<=31) {sub3=32;}

if(sub4>=29 && sub4<=31) {sub4=32;}

if(sub5>=29 && sub5<=31) {sub5=32;}

}

void calResult()

{

total= sub1+sub2+sub3+sub4+sub5;

per = (float)total/5;

div = per >= 35 ? "Pass" : "Fail";

}

void display()

{

if(name!=null)

{

System.out.printf("%5s %10s %10s %10s %10s %10s %10s %10s %10s %10s","RollNo","Name","M3","DATA","DIS","DLDA","ECCF","Total","Percentage","Division");

System.out.println();

System.out.printf("%5s %10s %10s %10s %10s %10s %10s %10s %10s %10s",rollno,name,sub1,sub2,sub3,sub4,sub5,total,per,div);

System.out.println();

}

else

{

System.out.println("No record found for specified student");

}

}

void displayAll()

{

if(name!=null)

{

System.out.printf("%5s %10s %10s %10s %10s",rollno,name,total,per,div);

}

}

}

class ExamSystem

{

public static void main(String[] args) throws IOException

{

InputStreamReader isr = new InputStreamReader(System.in);

BufferedReader br=new BufferedReader(isr);

int i=1;

s s1[] = new s[6];

s1[1]=new s();

s1[2]=new s();

s1[3]=new s();

s1[4]=new s();

s1[5]=new s();

while(true)

{

System.out.println("\n\nEnter your operation");

System.out.println("\n1.Add Student Details \n2.Edit Marks \n3.Display Result \n4.Display All Results \nAny other key to Exit");

int ch = Integer.parseInt(br.readLine());

System.out.println(new String(new char[50]).replace("\0", "\r\n"));

menu: switch(ch)

{

case 1:

System.out.println("Select Student no.: ");

i = Integer.parseInt(br.readLine());

if(i<1 || i>5)

{

System.out.println("Student range is from 1 to 5");

break menu;

}

s1[i].addStudent();

s1[i].addMarks();

System.out.println(new String(new char[50]).replace("\0", "\r\n"));

break;

case 2:

System.out.println("Select Student no.: ");

i = Integer.parseInt(br.readLine());

if(i<1 || i>5)

{

System.out.println("Student range is from 1 to 5");

break menu;

}

s1[i].addMarks();

System.out.println(new String(new char[50]).replace("\0", "\r\n"));

break;

case 3:

System.out.println("Select Student no.: ");

i = Integer.parseInt(br.readLine());

if(i<1 || i>5)

{

System.out.println("Student range is from 1 to 5");

break menu;

}

s1[i].calResult();

s1[i].display();

break;

case 4:

System.out.printf("%5s %10s %10s %10s %10s","RollNo","Name","Total","Percentage","Division");

System.out.println();

for(int n=1; n<6; n++)

{

s1[n].calResult();

s1[n].displayAll();

System.out.println();

}

break;

default:

System.exit(0);

break;

}

}

}

}

**Output:**







