**INTERFACE PROGRAM**

import java.util.Scanner;

import java.util.Arrays;

public class Anchor

{

public static void main(String[] args)

{

Scanner s = new Scanner(System.in);

int choice;

System.out.print("\n1. UnderGraduate Student\n2. GraduateStudent\nEnter your choice: ");

choice = s.nextInt();

switch(choice)

{

case 1:

{

System.out.print("\nEnter the student name: ");

UnderGraduate u = new UnderGraduate(s.next());

System.out.println("Enter the subject number and marks of 4 subjects");

for(int i=0;i<4;i++)

{

u.setTestScore(s.nextInt(),s.nextInt());

}

u.setTestResult();

u.display();

}

break;

case 2:

{

System.out.print("\nEnter the student name: ");

Graduate g = new Graduate(s.next());

System.out.println("Enter the subject number and marks of 4 subjects");

for(int i=0;i<4;i++)

{

g.setTestScore(s.nextInt(),s.nextInt());

}

g.setTestResult();

g.display();

}

break;

default: System.out.println("Invalid Choice!");

}

}

}

interface A

{

public String getName();

public void setTestScore(int no,int marks);

public int[] getTestScore();

public void setTestResult();

public int getTestResult();

public void display();

}

abstract class Student implements A

{

String name;

int[] test = new int[4];

int sum;

abstract public void generateResult();

Student()

{}

Student(String name)

{

this.name = name;

}

public String getName()

{

return this.name;

}

public void setTestScore(int no,int marks)

{

test[no-1] = marks;

}

public int[] getTestScore()

{

return test;

}

public void setTestResult()

{

for(int i=0;i<4;i++)

{

sum=sum+test[i];

}

sum/=4;

}

public int getTestResult()

{

return sum;

}

public void display()

{

System.out.println("\nStudent Name : "+getName());

System.out.println("Student Marks : "+Arrays.toString(getTestScore()));

System.out.print("Result : ");

generateResult();

}

}

class UnderGraduate extends Student

{

UnderGraduate()

{}

UnderGraduate(String name)

{

this.name = name;

}

public void generateResult()

{

if(getTestResult()>=60)

System.out.print("Pass");

else

System.out.print("Fail");

}

}

class Graduate extends Student

{

Graduate()

{}

Graduate(String name)

{

this.name = name;

}

public void generateResult()

{

if(getTestResult()>=70)

System.out.print("Pass");

else

System.out.print("Fail");

}

}

