INTERMEDIATE PROGRAMMING

Package Activity

1-BSCS-.2: Marasigan, Vem Aiensi A. Feb 26, 2022

SOURCE CODE

Main Package

```
package main;
import java.util.*;
import student.Acadinfo;
import student.StudentInfo;
import employee.Employeeinfo;
public class MainProgram
{
	static Scanner in = new Scanner(System.in);

	public static void main(String[] args)
	{
		int count = 0; int slot = 0;
		System.out.print("How many students will you record? ");
		slot = in.nextInt();
		in.nextLine();
		String student[][][] = new String [slot][2][7];
		String employee[][] = new String [slot][3];
		boolean repeater = false;
		do
		{
			//For Student Details
			System.out.print("Student name: "); //store name in student[0]
			student[count][0][0] = in.nextLine();			//and so on..
			System.out.print("Age: ");
			student[count][0][1] = in.nextLine();
			System.out.print("Gender: ");
			student[count][0][2] = in.nextLine();
			System.out.print("Adress: ");
			student[count][0][3] = in.nextLine();
			System.out.print("Contact Number: ");
			student[count][0][4] = in.nextLine();
			System.out.print("Father's name: ");
			student[count][0][5] = in.nextLine();
			System.out.print("Mother's name: ");
			student[count][0][6] = in.nextLine();

			//For Student Educational Info
			System.out.print("Stundent #: ");
			student[count][1][0] = in.nextLine();
			System.out.println("Student Grade: ");
			System.out.print("Quiz 1: ");
			student[count][1][1] = in.nextLine(); //this must be converted to double for calculations
			System.out.print("Quiz 2: ");
			student[count][1][2] = in.nextLine();
			System.out.print("Midterm: ");
			student[count][1][3] = in.nextLine();
			System.out.print("Final: ");
			student[count][1][4] = in.nextLine();
			System.out.println("Student Attendance");
			System.out.print("Number of overall classes: ");
			student[count][1][5] = in.nextLine();
			System.out.print("Number of classes Attended: ");
			student[count][1][6] = in.nextLine();

			//For Employee Details
			System.out.println("\nEMPLOYEE INPUT");
			System.out.print("Employee's Name: ");
			employee[count][0] = in.nextLine();
			System.out.print("Designation: ");
			employee[count][1] = in.nextLine();
			System.out.print("Academic Position: ");
			employee[count][2] = in.nextLine();
			count++; //will increase student no. for corresponding slot

			if (count < slot)
			{
				System.out.println("\nNext Student\n");
				repeater = true;
			}
			else
			{
				repeater = false;
			}
		}
		while(repeater == true);
		System.out.println();

		//loop here
		for (count = 0; count < slot;)
		{
			StudentInfo.Studentinfo(count, student);
```

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```
                StudentInfo.display_student(count, student);
                Employeeinfo.display_Employee(count, employee);
                Acadinfo.AcadInfo(student, count);
                Acadinfo.displayEducDetails(student, count);

                count++;
                if (count<slot)
                System.out.println("\n\nNEXT STUDENT");
            }
        }
//Note: I cleared some unnecessary comments for the sake of the program's neatness.
        //-Vem Aiensi
}
```

Employee Package

```
package employee;

public class Employeeinfo
{
    public static void display_Employee(int count, String employee[][])
    {
        System.out.println("\nEMPLOYEE'S DETAILS");
        System.out.println("Employee Name: " + employee[count][0]);
        System.out.println("Designation: " + employee[count][1]);
        System.out.println("Academic Position: " + employee[count][2]);
    }
}
```

Student Package

Class: Acadinfo

```
package student;
import java.text.DecimalFormat;
public class Acadinfo
{
    public static void AcadInfo(String [][][] student, int count)
    {
        System.out.println("\nSTUDENT'S ACADEMIC DETAILS:");
        System.out.println("Student Number: " + student[count][1][0]);
        System.out.println("Student Grade\nQuiz 1: " + student[count][1][1]);
        System.out.println("Quiz 2: " + student[count][1][2]);
        System.out.println("Midterm: " + student[count][1][3]);
        System.out.println("Final: " + student[count][1][4]);
        System.out.println("Number of Attended Classes: " + student[count][1][6]);
    }
    public static void displayEducDetails(String [][][] student, int count)
    {
        DecimalFormat df = new DecimalFormat("#.00");
        System.out.println("\nSTUDENT EDUCATIONAL STATUS");
        System.out.println("Student Number: " + student[count][1][0]);
        //quiz should have fixed value overall
        double quiz1 =      Double.parseDouble(student[count][1][1]); //100/100
        double quiz2 =      Double.parseDouble(student[count][1][2]);//100/100
        double midterm =Double.parseDouble(student[count][1][3]);//100/100
        double finl =  Double.parseDouble(student[count][1][4]);//100/100
        double averageGrade = ((quiz1+quiz2+midterm+finl)/400)*100;
        System.out.println("Student Average Grade: " + df.format(averageGrade) +"%");
        double numberOfDays = Integer.parseInt(student[count][1][5]);
        double attended      = Integer.parseInt(student[count][1][6]);
        double attendance = (attended/numberOfDays)*100;
        System.out.println("Student Attendance: " + df.format(attendance) +"%");
    }
}
```

Class: StudentInfo

```
package student;
public class StudentInfo
{
    public static void Studentinfo(int count ,String [][][] student)
    {
        System.out.println("Student no. " + (count+1));
            //ok this will be the indicator of printing the Student's details
    }
    public static void display_student(int count ,String [][][] student)
    {
        System.out.println("\nSTUDENT DETAILS");
        System.out.println("Student Name: " + student[count][0][0]);
        System.out.println("Student Age: " + student[count][0][1]);
        System.out.println("Student Gender: " + student[count][0][2]);
        System.out.println("Student Adress: " + student[count][0][3]);
        System.out.println("Contact Number: " + student[count][0][4]);
        System.out.println("Father's Name: " + student[count][0][5]);
        System.out.println("Mother's Name: " + student[count][0][6]);
    }
}
```

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OUTPUT

```
Student no. 1

STUDENT DETAILS
Student Name: Jordi Polla
Student Age: 25
Student Gender: M
Student Adress: IRAN
Contact Number: 09320756
Father's Name: Mr. James Bond
Mother's Name: Mrs. Vice Ganda

EMPLOYEE'S DETAILS
Employee Name: Audrey Lyle
Designation: Faculty
Academic Position: Professor

STUDENT'S ACADEMIC DETAILS:
Student Number: 2468
Student Grade
Quiz 1: 90
Quiz 2: 90
Midterm: 100
Final: 95
Number of Attended Classes: 18

STUDENT EDUCATIONAL STATUS
Student Number: 2468
Student Average Grade: 93.75%
Student Attendance: 100.00%


NEXT STUDENT
Student no. 2

STUDENT DETAILS
Student Name: Hope Elizabeth
Student Age: 28
Student Gender: F
Student Adress: Iraq
Contact Number: 9320757
Father's Name: Mr. Bong Go
Mother's Name: Mrs. Gal Gadot

EMPLOYEE'S DETAILS
Employee Name: Bryan Salar
Designation: Faculty
Academic Position: Professor

STUDENT'S ACADEMIC DETAILS:
Student Number: 13579
Student Grade
Quiz 1: 80
Quiz 2: 80
Midterm: 85
Final: 90
Number of Attended Classes: 98

STUDENT EDUCATIONAL STATUS
Student Number: 13579
Student Average Grade: 83.75%
Student Attendance: 98.00%
```

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