

Core Java project

PROJECT TITLE: student management system

AIM:

- To achieve the insert student database without any interruptions.

LANGUAGES:

- JAVA

SOFTWARE REQUIREMENTS:

- Eclipse for java.

SYNOPSIS:

In this student management SYSTEM there 4 operations are there.

That OPERATIONS are:

1. Constructor: prompt user to enter the student's name and year
2. Genarate an ID: Grade level id + ID
3. Enroll is course: more then one
4. Payment: pay your balance

The control is given for both the admin and also user. Ask the user how many students will be added to the databases. The user should be promoted to enter the name and grade year for each student. The student should have a 5-digit ID, with the first number being their grade level. A student can enroll in the course like JAVA,

PYTHON, C++ .Each courses cost \$2000 to enroll. To see the status of the student, we should see their name ,ID ,courses and tutiionbalance.

INITIAL SETUP:

(IN JAVA):

Mavan Project Name: Student management system

Package Name: com.pro

Classes Name: 1. Student management

2. StudentMain

STUDENT MANAGEMENT:

MAIN METHOD CODE:

*****CORE JAVA PROJECT*****

```
*                               CSR CAPGEMINI TRAINING PROJECT
*                               EDUBRIDGE INDIA PRIVATE LIMITED
*                               PROJECT TITLE: AIRLINE
*                               RESERVATION SYSTEM
*                               UNDER THE GUIDENCE OF TRAINER
*                               MRS.INDRAKA MALLI
*                               @DONE BY VINODHINI G
*
*                               In STUDENT MANAGEMENT SYSTEM:
*                               MAIN OPERATIONS:
```

//This class will perform, main operation of studentclass

```
package com.pro;

public class StudentMain {

    public static void main(String[] args) {

        StudentManagement stu1=new StudentManagement();

        stu1.enroll();

        stu1.PayTution();

        System.out.println(stu1.toString());


        StudentManagement stu2 = new StudentManagement();

        stu2.enroll();

        stu2.PayTution();

        System.out.println(stu2.toString());


        StudentManagement stu3 = new StudentManagement();

        stu3.enroll();

        stu3.PayTution();

        System.out.println(stu3.toString());


        // Ask how many new users we want to add


        // Create n number of new students

    }

}
```

STUDENT MANAGEMENT CLASS:

```
/**In this class student can enrolled their required course  
And displays fees and generate id by the admin*/
```

```
package com.pro;
```

```
import java.util.Scanner;
```

```
public class StudentManagement {
```

```
    private String firstname;
```

```
    private String lastname;
```

```
    private int gradeyear;
```

```
    private String studentID;
```

```
    private String courses = "";
```

```
    private int tuitionBalance = 0;
```

```
    private static int costofcourse = 2000;
```

```
    private static int id = 1000;
```

```
    //constructor:prompt user to enter student's name and year
```

```
    public StudentManagement() {
```

```
        Scanner sc=new Scanner(System.in);
```

```
        System.out.println("*****WELCOME TO STUDENT MANAGEMENT  
SYSTEM*****");
```

```
        System.out.println("Enter student first name: ");
```

```
        this.firstname = sc.nextLine();
```

```
System.out.println("Enter student last name: ");
```

```
this.lastname = sc.nextLine();
```

```
System.out.println("1 - fresher\n2 - junior\n3 - senior\nEnter student class level: ");
```

```
this.gradyear = sc.nextInt();
```

```
setstudentID();
```

```
System.out.println.firstname + " " + lastname + " " + gradyear + " " + studentID);
```

```
}
```

```
//Generate an ID
```

```
private void setstudentID() {
```

```
//Grade level id + ID
```

```
id++;
```

```
this.studentID = gradyear + "" + id;
```

```
}
```

```
//Enroll is course
```

```

public void enroll() {

    do {

        System.out.println("Enter course to enroll (Q to Quit): ");

        Scanner sc = new Scanner(System.in);

        String course = sc.nextLine();

        if(!course.equals( "Q")) {

            courses = courses + "\n" + course;

            tutiionBalance = tutiionBalance + costofcourse;

        }

        else {

            System.out.println("BREAK!");

            break;

        }

    } while (1 != 0);

    System.out.println("Enrolled in: " + courses);

    System.out.println("Tution fees: " + tutiionBalance);

}

public void ViewBalance() {

```

```

        System.out.println("Your Balance is: $" + tutionBalance);

    }

    public void PayTution() {

        ViewBalance();

        System.out.println("enter the payment");

        Scanner sc= new Scanner(System.in);

        int payment= sc.nextInt();

        tutionBalance = tutionBalance - payment;

        System.out.println("Thank you for payment of $ " + payment);

        ViewBalance();

    }

    public String toString() {

        return "Name:" + firstname + " " + lastname +

                "\n StudentId:" +studentID+

                "\nCorses Enrolled:" + courses +

                "\nBalance : $" + tutionBalance;

    }

}

```

STUDENT MANAGEMENT OUTPUT:

```
StudentMain (4) [Java Application] C:\Users\ELCOT\Downloads\eclipse-jee-2021-12-R-win32-x86_64\eclipse\plugins\or
*****'WELCOME TO STUDENT MANAGEMENT SYSTEM'*****
Enter student first name:
vinodhini
Enter student last name:
G
1 - fresher
2 - junior
3 - senior
Enter student class level:
2
vinodhini G 2 21001
Enter course to enroll (Q to Quit):
JAVA
Enter course to enroll (Q to Quit):
C
Enter course to enroll (Q to Quit):
Q
BREAK!
Enrolled in:
JAVA
C
Tution fees: 4000
Your Balance is: $4000
enter the payment
2000
Thank you for payment of $ 2000
Your Balance is: $2000
Name:vinodhini G
StudentId:21001
Corses Enrolled:
JAVA
C
Balance : $2000
*****'WELCOME TO STUDENT MANAGEMENT SYSTEM'*****
Enter student first name:
```

CONCLUSION:

- student management system process is performed by Java code successfully

