

YASH GUPTA 1BM21CS251 24-NOV-2022

EXPERIMENT 2

Develop a Java program to create a class Student with members usn, name, an array credits and an array marks. Include methods to accept and display details and a method to calculate SGPA of a student.

INPUT

```
import java.util.Scanner;

class student {

    String usn;

    String name;

    int credits[]= new int[9];

    int marks[]= new int[9];


    public void enterInfo(){

        Scanner sc= new Scanner(System.in);

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

        usn=sc.nextLine();

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

        name=sc.nextLine();

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

        for(int i=0;i<9;i++){

            credits[i]=sc.nextInt();

        }

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

        for(int i=0;i<9;i++){

            marks[i]=sc.nextInt();

        }

    }

}
```

```

public void displayInfo(){
    System.out.println("\nPRINTING STUDENT INFO: \n");
    System.out.println("USN: "+usn);
    System.out.println("NAME: "+name);
    System.out.print("CREDITS: ");
    for(int i=0;i<9;i++){
        System.out.print(credits[i]+" ");
    }
    System.out.println();
    System.out.print("MARKS: ");
    for(int i=0;i<9;i++){
        System.out.print(marks[i]+" ");
    }
}

```

```

public float calculateSGPA(){
    float sgpa;
    float totalcreds=0;
    for(int i=0;i<9;i++){
        totalcreds+=credits[i];
    }
    float gp=0;
    for(int i=0;i<9;i++){
        gp+=credits[i]*(((marks[i])/10)+1);
    }
    sgpa=gp/totalcreds;
    return sgpa;
}

```

```
}
```

```
public class democlass{  
    public static void main(String args[]){  
        student s1= new student();  
        s1.enterInfo();  
        s1.displayInfo();  
        float sgpa=s1.calculateSGPA();  
        System.out.println("\nSGPA: "+sgpa);  
    }  
}
```

OUTPUT

```
C:\Users\Admin\Desktop\1bm21cs251>java democlass  
enter the usn  
1bm21cs251  
enter the name  
yash gupta  
enter the credits  
3 4 1 3 1 3 1 3 1  
enter the marks  
98 97 94 89 89 77 90 82 79  
  
PRINTING STUDENT INFO:  
  
USN: 1bm21cs251  
NAME: yash gupta  
CREDITS: 3 4 1 3 1 3 1 3 1  
MARKS: 98 97 94 89 89 77 90 82 79  
SGPA: 9.25
```