

Q. 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.

```
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");
        this.usn=sc.nextLine();
        System.out.println("enter the name");
        this.name=sc.nextLine();
        System.out.println("enter the credits");
        for(int i=0;i<9;i++){
            this.credits[i]=sc.nextInt();
        }
        System.out.println("enter the marks");
        for(int i=0;i<9;i++){
            this.marks[i]=sc.nextInt();
        }
    }

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

    public float calculateSGPA(){
        float sgpa;
        float totalcreds=0;
        for(int i=0;i<9;i++){
```

```

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

public class exp2{
    public static void main(String args[]){
        student s1= new student();
        s1.enterInfo();
        s1.displayInfo();
        float sgpa=s1.calculateSGPA();
        System.out.println("\nSGPA: "+sgpa);
    }
}

```

Out put:

```

C:\Users\Admin\Desktop\New folder>javac exp2.java

C:\Users\Admin\Desktop\New folder>java exp2
enter the usn
243
enter the name
vis
enter the credits
4 4 3 3 3 3 2 2 1
enter the marks
98 97 83 65 78 78 67 67 90

PRINTING STUDENT INFO:

USN: 243
NAME: vis
CREDITS: 4 4 3 3 3 3 2 2 1
MARKS: 98 97 83 65 78 78 67 67 90
SGPA: 8.56

C:\Users\Admin\Desktop\New folder>

```