

program 2

1BM19EC173

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```
import java.util.*;
```

```
class Student
```

```
{
```

```
    private String name;
```

```
    private String USN;
```

```
    private int n;
```

```
    private double SGPA = 0;
```

```
    private int totalCredits = 0;
```

```
    private int credits[];
```

```
    private double marks[];
```

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

```
    void accept()
```

```
{
```

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

```
    name = in.nextLine();
```

```
    System.out.println("Enter USN of student");
```

```
    USN = in.nextLine();
```

```
    System.out.println("Enter no of subjects");
```

```
    n = in.nextInt();
```

```
    credits = new int[n];
```

```
    marks = new double[n];
```

```
    System.out.println("Enter the details of subjects");
```

```
    for (int i = 0; i < n; i++)
```

```
{
```

```
    System.out.println("Enter the credits of the subject " + (i+1));
```

```
    credits[i] = in.nextInt();
```



```

System.out.println("Enter marks for subject " + (i+1));
marks[i] = in.nextInt();
Calculate(credits[i], marks[i], i);
}
}

```

```

void Calculate(int credit, double mark, int j)
{

```

```

    totalCredits = totalCredits + credit;

```

```

    if (mark >= 90 && mark <= 100)

```

```

        SGPA = SGPA + (10 * credit);

```

```

    else if (mark >= 80 && mark <= 89)

```

```

        SGPA = SGPA + (9 * credit);

```

```

    else if (mark >= 70 && mark <= 79)

```

```

        SGPA = SGPA + (8 * credit);

```

```

    else if (mark >= 60 && mark <= 69)

```

```

        SGPA = SGPA + (7 * credit);

```

```

    else if (mark >= 50 && mark <= 59)

```

```

        SGPA = SGPA + (6 * credit);

```

```

    else if (mark >= 40 && mark <= 49)

```

```

        SGPA = SGPA + (5 * credit);

```

```

    else

```

```

        System.out.println("Failed in subject " + (j+1));

```

```

}

```

```

void Display()
{

```

```

    System.out.println("Details of student");

```

```

    System.out.println("USN: " + USN);

```

```

    System.out.println("Name: " + name);
}

```



```
System.out.println("SGPA of Student: " + (SGPA/totalCredits));
```

```
}
```

```
}
```

```
class Main
```

```
{  
    public static void main(String args[])
```

```
{  
        Student s1 = new Student();
```

```
        s1.accept();
```

```
        s1.Display();
```

```
}
```

```
}
```