

Date ____ / ____ / ____

Program - 2

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

```
import java.util.Scanner;
class Student
{
    Student () { }
    String name;
    String USN;
    int marks[] = new int [5];
    int credits[] = new int [5];
    int total = 0;
    double result = 0;
    void accept()
    {
        Scanner s = new Scanner(System.in);
        System.out.println("Enter name and USN");
        name = s.nextLine();
        USN = s.nextLine();
        System.out.println("Enter credits and marks");
        for (int i = 0; i < 5; i++)
        {
            credits[i] = s.nextInt();
            marks[i] = s.nextInt();
        }
    }
    void calculate()
    {
```



```
for (int i=0; i<5; i++)
{
```

```
    if (marks >= 90 && marks <= 100)
        result += credits[i] * 10;
```

```
    else if (marks >= 80 && marks < 90)
        result += credits[i] * 9;
```

```
    else if (marks >= 70 && marks < 80)
        result += credits[i] * 8;
```

```
    else if (marks >= 60 && marks < 70)
        result += credits[i] * 7;
```

```
    else if (marks >= 50 && marks < 60)
        result += credits[i] * 6;
```

```
    else if (marks >= 40 && marks < 50)
        result += credits[i] * 5;
```

```
    else
```

```
        result += credits[i] * 0;
```

```
    }
```

```
    for (int i =
```

```
        for (int i=0; i<5; i++)
```

```
            total = total + credits[i];
```

```
        sgpa = result / total;
```

```
    }
```

```
void display()
```

```
{
```

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

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

```
    System.out.println("SGPA:" + sgpa);
```

```
}
```

```
}
```

```
class student1
```

```
{
```

```
    public static void main (String ss[])
```

```
{
```

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


Date ___ / ___ / ___

```
sl. accept();  
sl. calculate();  
sl. display();
```

```
}  
}
```

Output

Enter your name
Deepini

Enter USN
IBM21CS050

Enter credits and marks of each subject

3 90

5 95

4 90

Total credits = 12

SGPA = 10.0

Name: Deepini S

USN: IBM21CS050

Credits	Marks
---------	-------

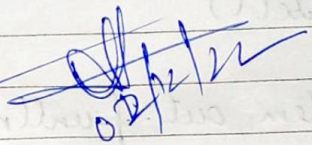
3	90
---	----

5	95
---	----

4	90
---	----

Total credits = 12

SGPA = 10.0


02/12/22

```
C:\Users\bmscece\Desktop\1BM21CS050> javac student.java
```

```
C:\Users\bmscece\Desktop\1BM21CS050> java student
```

```
Enter your Name
```

```
DEEPINI S
```

```
Enter USN
```

```
1bm21cs050
```

```
Enter credits and marks of each subject respectively
```

```
3 90
```

```
5 95
```

```
4 90
```

```
Name:DEEPINI S USN: 1bm21cs050
```

```
credits Marks
```

```
3 90
```

```
5 95
```

```
4 90
```

```
Total credits=12
```

```
SGPA=10.0
```

```
C:\Users\bmscece\Desktop\1BM21CS050>
```

```
C:\Users\bmscece\Desktop\1BM21CS050> java student
```

```
Enter your Name
```

```
DEEPINI
```

```
Enter USN
```

```
1BM21CS050
```

```
Enter credits and marks of each subject respectively
```

```
3 80
```

```
5 70
```

```
4 60
```

```
Name:DEEPINI USN:1BM21CS050
```

```
credits Marks
```

```
3 80
```

```
5 70
```

```
4 60
```

```
Total credits=12
```

```
SGPA=7.916666666666667
```

```
C:\Users\bmscece\Desktop\1BM21CS050>
```