QUESTION AND CODE

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 & display details and a method to calculate sgpa of student.

```java
A) import java.util.Scanner;

class Student {
    String usn, name;
    int[] marks = new int[3];
    Double result = 0;
    int[] credits = new int[3];   int total = 0;

    void accept() {
        Scanner s = new Scanner(System.in);
        System.out.println("Enter usn");
        usn = s.next();
        System.out.println("Enter name");
        name = s.next();
        System.out.println("Enter marks in 3 subjects");
        for(int i=0; i<3; i++)
        {
            marks[i] = s.nextInt();
        }
        System.out.println("Enter credits of 3 subjects");
        for(int i=0; i<3; i++)
        {
            credits[i] = s.nextInt();
        }
    }
```

```java
void display() {

    void calculate() {
        for(int i=0; i
        {
            if(marks[i] >
                result += 10*c
            if(marks[i]
                result += 9
            if(marks[i]
                result +=
            if(marks[i]
                result +=
            if(marks[i]
                result +=
            if(marks[i]
                result += 6
            if(marks
                result +
            else re
        }
        for(int
            total +=
            result
    }

    void di
    {
        Syst
        System
```

```java
void calculate()
{
    for(int i=0; i<n; i++)
    {
        if(marks[i] >= 90 && marks[i] <=100)
            result += 10*credits[i];
        if(marks[i] >= 80 && marks[i]<90)
            result += 9*credits[i];
        if(marks[i] >= 70 && marks[i]<80)
            result += 8*credits[i];
        if(marks[i] >= 60 && marks[i]<70)
            result += 7*credits[i];
        if(marks[i] >= 50 && marks[i]<60)
            result += 6*credits[i];
        if(marks[i] >= 40 && marks[i]<50)
            result += 5*credits[i];
        else result += 0*credits[i];
    }
    for(int i=0; i<n; i++)
        total += credits[i];
    result = result/total;
}

void display()
{
    System.out.println("Name:" + name +" USN:" +usn);
    System.out.println("Credits marks");
```

```java
for(int i=0; i<n; i++)
System.out.println( credit[i] + "    " + mark[i]);
System.out.println("Total credit = " + total);
System.out.println(" SGPA =" + result);
}
}

class Student Sgpa
{

Public Static void main (String[] args)
{

Student s1 = new Student();
s1.input();
s1.calculate();
s1.display();
}
}
```

OUTPUT

ENTER USN:

1BM21CS060

ENTER NAME

Awaiz

Enter marks in 3 subjects
40
80
100

Enter Credits for 3 subjects

4
3
3

Name : Awaiz   USN : 1hm21cs060

Credit   Marks
                  90
4   80
3
                 100
3

Total Credits = 10

SGPA : 9.7

Neelima
2/12/2022
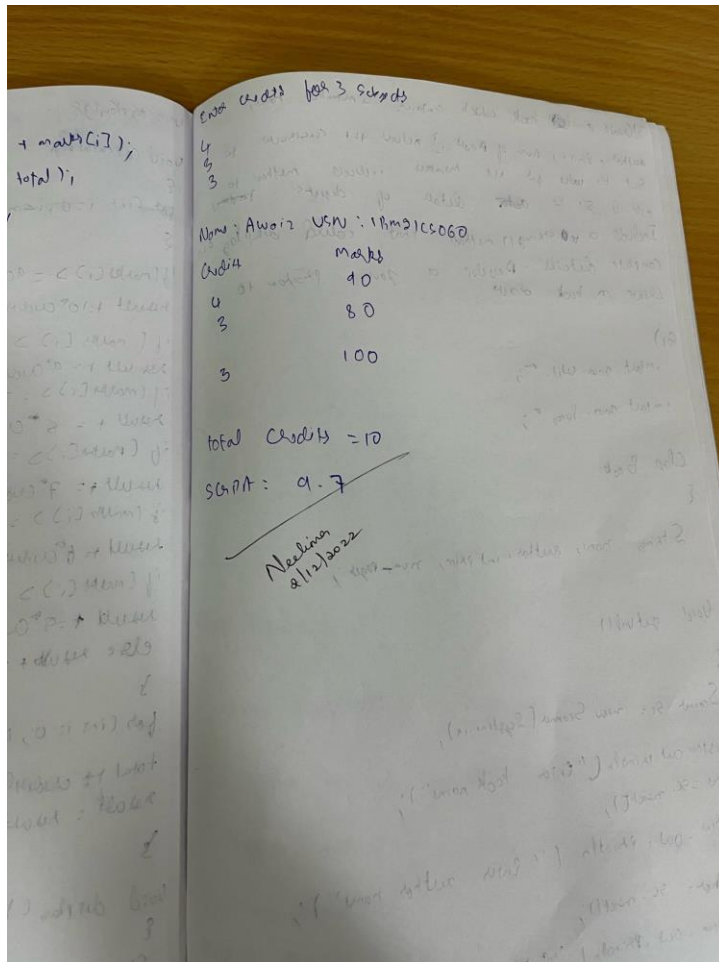
OUTPUT

```
C:\Users\BMSCE\Desktop\1BM21CS060>java Studentsgpa
Enter Usn
1BM21CS060
Enter name
AWAIZ
Enter marks in 3 subjects
90
80
100
enter credits for 3 subjects
4
3
3
Name:AWAIZUsn:1BM21CS060
credits marks
4 90
3 80
3 100
total credits=10
SGPA=9.7
```