LAB PROGRAM - 2

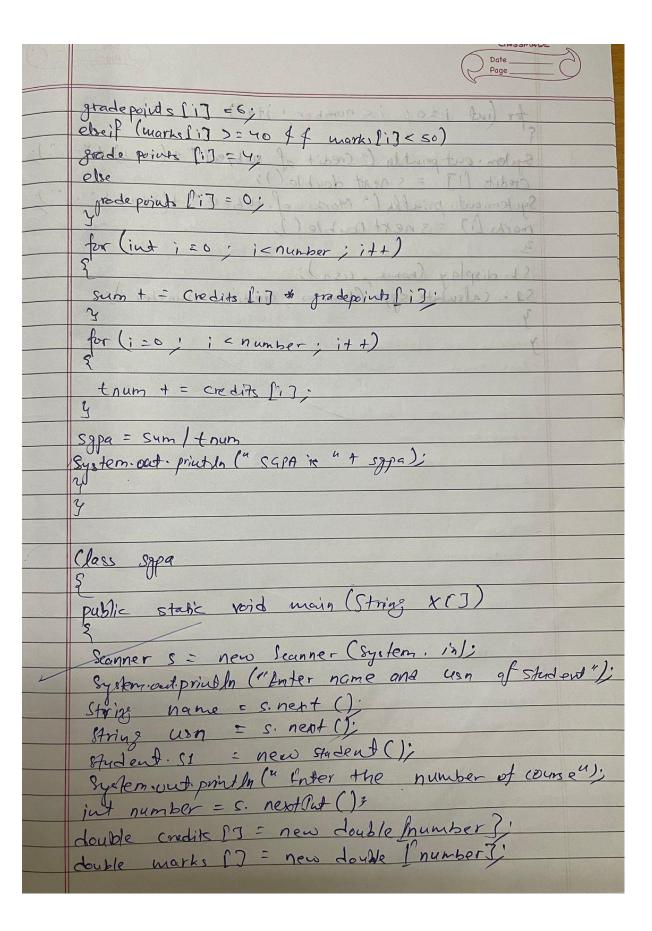
Q. Develop a Java program to create a class Student with members usn, name, an array credits and an array marks. Include methods to accept and display details and a method to calculate SGPA of a student.

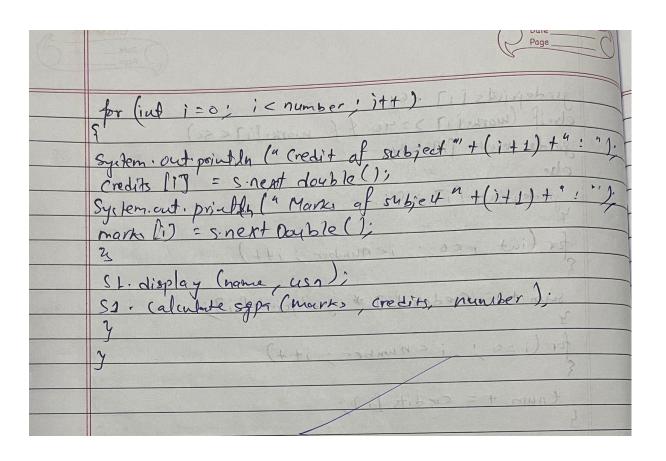
```
import java.util.Scanner;
class student{
void display(String name, String usn)
System.out.println("USN of the student "+usn);
   System.out.println("Name of the student "+ name);
void calculatesgpa(double[] marks, double[] credits, int number)
double gradepoints[]=new double[number];
double sgpa,sum=0,tnum=0;
for (int i=0;i<number;i++)
if(marks[i]>=90)
gradepoints[i]=10;
else if(marks[i]>=80)
gradepoints[i]=9;
else if(marks[i]>=70)
gradepoints[i]=8;
else if(marks[i]>=60)
gradepoints[i]=7;
else if(marks[i]>=50)
gradepoints[i]=6;
else if(marks[i]>=40)
gradepoints[i]=4;
else
gradepoints[i]=0;
for(int i=0;i<number;i++)</pre>
sum+=credits[i]*gradepoints[i];
for(int i=0;i<number;i++)
tnum+=credits[i];
sgpa=sum/tnum;
System.out.println("SGPA is "+sgpa);
class sgpa{
public static void main(String args[]){
Scanner s=new Scanner(System.in);
System.out.println("Enter name and usn of student");
```

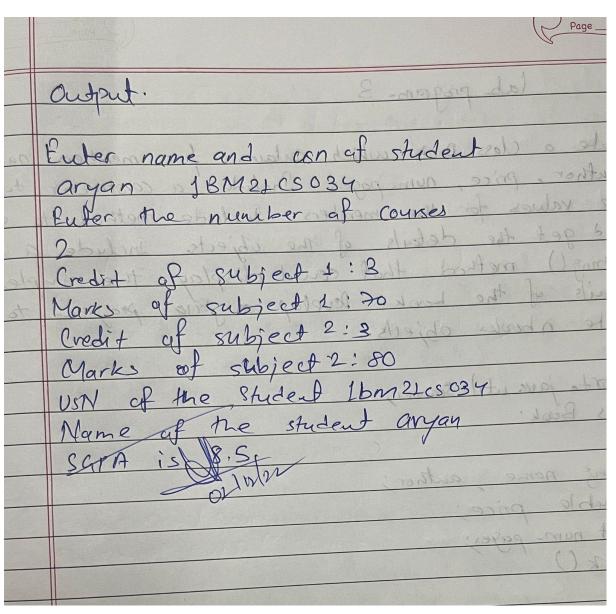
```
String name=s.next();
String usn=s.next();
student s1=new student();
System.out.println("Enter the number of courses");
int number=s.nextInt();
double credits[]=new double[number];
double marks[]=new double[number];
for(int i=0;i<number;i++)
{
System.out.print("Credit of subject "+(i+1) +" : ");
credits[i]=s.nextDouble();
System.out.print("Marks of subject "+(i+1) +" : ");
marks[i]=s.nextDouble();
}
s1.display(name,usn);
s1.calculatesgpa(marks,credits,number);
}
```

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9	Class & dil Scanner;
	Class Student
	Void display (String name, String usn)
	System, out printly ("USIN of the student" + usn);
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१	
	if (marks [i])=90)
	grade pojuls 117 = to.
e	lse if (marks [17>=80 ff warks [17<90)
0	gradepoints [i] = 9. Re if (marks [i]) = 70 ff marks[i] < 80)
	gradepoints [i] = 8;
	se if (morks [i] > = 60 ff marks [i] < 70
	grade points [i] = 7 eif (marks [i] > = 50 ff norks [i] < 60)
ek	eif (marks [i] > = 50 ff marks [i] < 60)

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Command Prompt

**Ifcrosoft Windows [Version 10.0.19045.2251]
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C:\Users\bmsce\Desktop\lBM21CS034\)javac stu.java

C:\Users\bmsce\Desktop\lBM21CS034\)javac stu.java

C:\Users\bmsce\Desktop\lBM21CS034\)java sgpa

inter name and usn of student
aryan 1bm21cS034

inter the number of courses

2

Credit of subject 1 : 3

Marks of subject 1 : 70

Credit of subject 2 : 3

Marks of subject 2 : 3

Marks of subject 2 : 80

JSN of the student aryan

SGPA is 8.5

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GGPA is 8.5

C:\Users\bmsce\Desktop\lBM21CS034_

GGPA is 8.5