PROGRAM 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 and display details and a method to calculate SGPA of a student.

```java
import java.util.Scanner;
 class student
{
  student(){}
  String name;
  String usn;
  double result=0;
  int credits[]=new int[3];
  int marks[]=new int[3];
  int total=0;


void accept()
    {
Scanner s=new Scanner(System.in);

System.out.println("Enter your Name ");
name=s.nextLine();
System.out.println("Enter USN ");
usn=s.nextLine();
System.out.println("Enter credits and marks of each subject respectively ");
  for(int i=0;i<3;i++)
{
 this.credits[i]=s.nextInt();
 this.marks[i]=s.nextInt();
}
    }
void calculate()
 {
    for(int i=0;i<3;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];
```

```java
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<3;i++)
    total+=credits[i];
    result=result/total;
 }
void display()
  {
System.out.println("Name:"+name+"  USN:"+usn);
System.out.println("credits  Marks");
 for(int i=0;i<3;i++)
   System.out.println(credits[i]+"          "+marks[i]);
   System.out.println("Total credits="+total);
    System.out.println("SGPA="+result);
  }
```
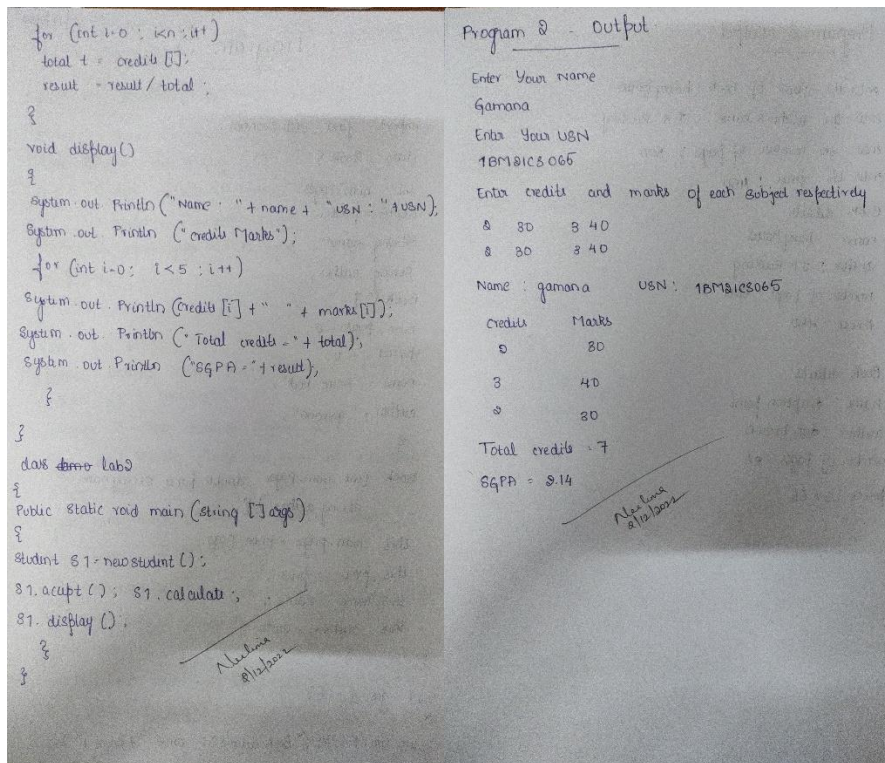

Program - 2

2/12/2022

Develop a java program to create a class student

```java
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 acupt()
  {
  Scanner s = new Scanner (system.in);
  System.out.Println ("Enter your Name");
  name = s.nextline();
  System.out.Println ('Enter USN');
  USN = s.nextline();
  System.out.Println ('Enter credits and marks');
  for (int i=0; i<5; i++)
  {
  credits [i] = s.next int ();
  marks [i] = s.next int();
  void calculate ()
  {
  for (int i=0; i<5; 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 * credit [i];
  else
  result + = 0 + credits [i];
  {
```

```java
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");
    for (int i=0; i<5 ; i++)
    System.out.Println(credits [i] + "  " + marks[i]);
    System.out.Println(" Total credits = " + total);
    System.out.Println("SGPA = "+ result);
}

}

class demo lab2
{
    Public static void main (string [] args)
    {
        Student s1=new student();
        s1.accept(); s1.calculate;
        s1.display();
    }
}
```

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8/12/2021

Program 2 - Output

```
Enter Your Name
Gamana
Enter Your USN
1BM21CS065
Enter credits and marks of each subject respectively
2   30    3  40
2   30    3  40
Name : gamana      USN : 1BM21CS065

credits    Marks
  2          30
  3          40
  2          30

Total credits = 7
SGPA = 2.14
```

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Output:

```
Command Prompt                                                                                          —  □  ×

Microsoft Windows [Version 10.0.19044.1706]
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C:\Users\bmsce>cd C:\Users\bmsce\Desktop\1BM21CS065

C:\Users\bmsce\Desktop\1BM21CS065>set path"=C:\Program Files\Java\jdk1.8.0_201\bin"

C:\Users\bmsce\Desktop\1BM21CS065>javac student.java

C:\Users\bmsce\Desktop\1BM21CS065>java lab2
Enter your Name
gamana
Enter USN
1bm21cs065
Enter credits and marks of each subject respectively
2 30 3 40
2 30 3 40
Name:gamana  USN:1bm21cs065
credits  Marks
2         30
3         40
2         30
Total credits=7
SGPA=2.142857142857143

C:\Users\bmsce\Desktop\1BM21CS065>javac book.java

C:\Users\bmsce\Desktop\1BM21CS065>java lab_2
enter the name of the book: harry potter
enter the author's name: jk rowling
enter the number of pages in the book: 500
enter the price of the book: 450

Book details
name: harry potter
author: jk rowling
nmber of pages: 500
price: 450.0
-----------------------

Book details
name: deception point
author: dan brown
nmber of pages: 20
price: 87.65
-----------------------

Book details
name: harry potter
author: jk rowling
nmber of pages: 500
price: 450.0
--------------------------------

Book details
name: deception point
author: dan brown
nmber of pages: 20
price: 87.65
--------------------------------
```