## 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 "+ussn);
   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++)</pre>
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);
}
```

```
report your util Scanner
                                 class methods &
                                                                                                                                                                                                                          void gradificial) & for (1=0; i+9; i+1)
                             String USN
                            String name;
                                                                                                                                                                                                                      if (marks (i) >= 90 $$ marks (i) <= 100) 9b= 10;

about (marks (i) >= 80 $$ marks (i) <= 89) 9b= 9;

else (marks (i) >= 40 $$ marks (i) <= 89) 9b= 9;

else (marks (i) >= 60 $$ marks (i) <= 69) 9b= 4;

else (marks (i) >= 50 $$ marks (i) <= 69) 9b= 4;

else (marks (i) >= 50 $$ marks (i) <= 59) 9b= 6;

else (marks (i) >= 70 $$ marks (i) <= 49) 9b= 4;

else (marks (i) >= 70 $$ marks (i) <= 49) 9b= 4;

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else (marks (i) >= 50 $$ marks (i) <= 50 $$ ma
                           interchedits = new int [9];
                     int() mands - new out (m);
Out i = 0;
                   int ap;
               dause sapas;
                Sconner SS = new Sconner(System-in);
System out printin ("Enth your USN and name");
                  ELSN = SS. next();
       name = SS-next();
for (i=0; i<9; i++)
                                                                                                                                                                                                                             system out printin (-your sopa is
           System · cut · println ("Entir manks for subject" + (i+1)+":");
                                                                                                                                                                                                                               "class g pa 2 public static void main (String SCI) & public static void main (String SCI) &
            Umarks (i) = 95 · noxt Int (); 3
               for ( =0 ; (4; i+t)
                  system cut brintin ( Enth executs for Subject + (i+i)+
                                                                                                                                                                                                                                             m.accept ();
                                                                                                                                                                                                                                          m display();
m grade point ();
            Creditici] = SS-next Intl); 3
                                                                                                                                                                                                                                                                                                                                         2/2/
                                                                                                                                                                                                                                              Pavelob a Java brogram to becate a class student with members us, name and away manks
           void display () &
         gisten · Cut · printen ("USN: "+ WON +" \n Name: "+mme+
                                                                                                                                                                                                                                                 Include method to accept and display details a method to calculate some q a student
system · all · privitin ("Marks: "+ marks []+" (xedits:
                                            " credits [] + " \n');3
```

output for prog Ster your name Akanska Enter your USN 16m2 CSO12 enter the marks of each subject 89 95 7 Enter the number of Oredits Name: Akansha USN: 16maxso12 marks of each subject is 89 number to each subject ) = 4 mark of each subject is 90 number of credits for each subject 2 = 3

Marks of each subject is 95

number of credits for each subject 3 = 2 marks of each subject is 67 number of credits for each shipet = 4 marks of each subject is & number of credits for each subject =+

```
Enter credits for subject 5:
Enter credits for subject 6:
Enter credits for subject 7:
Enter credits for subject 8:
Enter credits for subject 9:
USN: 1bmcs012
Name :akansha
Marks: 90 Credits: 1
Marks: 89 Credits: 4
Marks: 99 Credits: 3
Marks: 67 Credits: 2
Marks: 78 Credits: 2
Marks: 98 Credits: 6
Marks: 100 Credits: 1
Marks: 98 Credits: 1
Marks: 78 Credits: 1
```