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++)

{

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);

}

}







