Lab 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.

import java.util.Scanner;

class Student

{

private String USN;

private String name;

private int n;

private double SGPA = 0;

private int totalCredits = 0;

Scanner ss = new Scanner(System.in);

void Details()

{

System.out.println("Enter USN of the student");

USN = ss.nextLine();

System.out.println("Enter Name of the student");

name = ss.nextLine();

System.out.println("Enter no of subjects");

n = ss.nextInt();

int credits[] = new int[n];

double marks[] = new double[n];

System.out.println("Enter details of the subjects:");

for(int i=0;i<n;i++)

{

System.out.println("Enter credits allotted to the subject "+(i+1));

credits[i] = ss.nextInt();

System.out.println("Enter marks in the subject "+(i+1));

marks[i] = ss.nextInt();

Calculate(credits[i],marks[i],i);

}

}

void Calculate(int credit,double mark,int j)

{

totalCredits = totalCredits + credit;

if(mark>=90&&mark<=100)

SGPA = SGPA + (10\*credit);

else if(mark>=80 && mark<=89)

SGPA = SGPA + (9\*credit);

else if(mark>=70&&mark<=79)

SGPA = SGPA + (8\*credit);

else if(mark>=60&&mark<=69)

SGPA = SGPA + (7\*credit);

else if(mark>=50 && mark<=59)

SGPA = SGPA + (6\*credit);

else if(mark>=40&&mark<=49)

SGPA = SGPA + (5\*credit);

else

System.out.println("Failed in subject "+(j+1));

}

void Display()

{

System.out.println("Details of the Student");

System.out.println("Name :"+name);

System.out.println("USN: "+USN);

System.out.println("SGPA of student "+(SGPA/totalCredits));

}

}

public class Students

{

public static void main(String args[])

{

Student s1 = new Student();

s1.Details();

s1.Display();

}

}

Output:-

