

2.93

LAB - 02

- i) 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 Subject {

 int subjectMark, credits, grades;

 int credits;

 int grade;

}

class Student {

 Subject subject[7];

 String name;

 String usn;

 double SGPA;

 Scanner s;

 Student () {

 int i;

 subject = new Subject[9];

 for (i=0; i<9; i++)

 subject[i] = new Subject();

 }

 void getStudentDetails () {

 System.out.println("Enter your
name : ");

 name = s.next();

 System.out.println("Enter your
USN : ");

 usn = s.next();

}

Void getMarks() {

for (int i=0; i<9; i++) {

System.out.println("Enter marks

for subject " + (i+1) + ":");

subject[i].subjectmarks = s.nextInt();

~~System.out.println("Enter credits for subject " + (i+1) + ":");~~

System.out.println("Enter the

credits for subject " + (i+1) + ":");

subject[i].credits = s.nextInt();

subject[i].grade = (subject[i].

~~subjectMarks / 10~~) +;

if (subject[i].grade == 11)

subject[i].grade = 10;

if (subject[i].grade <= 4)

subject[i].grade = 0;

}

Void computeSGPA() {

int effectiveScore = 0;

int totalCredits = 0;

for (int i=0; i<9; i++) {

effectiveScore += (subject[i].

grade * subject[i].credits);

totalCredits += subject[i].

credits;

}

Class Result {

public static void main (String args []) {

Student s1 = new Student();

s1.getStudentDetails();

s1.getMarks();

s1.computeSGPA();

System.out.println("Name of
Student : " + s1.name);

System.out.println ("USN of
student : " + s1.usn);
System.out.println ("SGPA of
the student : " + s1.SGPA);

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- Output :

Enter your name:

Navya

Enter your USN:

IBM22CS175

Enter marks for subject 1:

98

Enter credits for subject 1:

4

Enter marks for subject 2:

92

Enter credits for subject 2:

4

Enter marks for subject 3:

86

Enter credits for subject 3:

3

Enter marks for subject 4:

92

Enter credits for subject 4:

3

Enter marks for subject 5:

97

Enter credits for subject 5:

3

Enter marks for subject 6:

98

Enter credits for subject 6:

1

Enter marks for subject 7:

99

Enter credit for subject 7:

1

Enter marks for subject 8:

95

Enter credits for subject 8:

1

Enter marks for subject 9:

87

Enter credits for subject 9:

1

Name of student : NAVYA

USN of student : IBH22CS175

CGPA of student : 9.88952

Qwerty
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