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1BM19CS199

16/10/2020

LAB 2:

Q. Develop a JAVA program to create a class student with memebaers usn, name, an array credits and an array mark. Include methods to accept and display details and a method to calculate SGPA of a student.

A.
```
import java.util.Scanner;
class Student
{
    String name;
    String usn;
    int credits[] = new int[5];
    int gradepoints[] = new int[5];
    double marks[] = new double[5];
    int i;
    int total_credits=0;
    int sgpa;
    Scanner in = new Scanner(System.in);

    void getdetails()
    {
        System.out.println("Enter the Name of the Student:");
        name = in.nextLine();
        System.out.println("Enter the USN of the Student:");
        usn = in.nextLine();
        System.out.println("Enter the credits in the subjects:");
        for(i=0; i<5; i++)
        {
            credits[i] = in.nextInt();
            total_credits = total_credits + credits[i];
        }
```

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```
System.out.println("Enter the marks in the subjects(0-100):");
for(i=0;i<5;i++)
{
    marks[i] = in.nextDouble();
}
}
```

```
void displaydetails
{
    System.out.println("Student Name:" +name);
    System.out.println("Student USN:" +usn);
    for(i=0;i<5;i++)
    {
        System.out.println("Subject" +(i+1)+" --> Marks
            scored :" + marks[i]+" Credits: " +credits[i]);
    }
    System.out.println("SGPA :" +(double) sgpa/total-
        credits);
}

void sgpa()
{
    for(i=0; i<5; i++)
    {
        if(marks[i] >= 91 && mark[i] <=100)
            grade points[i] =10;
        else if (marks[i] >= 81)
            grade points[i] = 9;
        else if (marks [i] >= 71)
            grade points[i] = 8;
        else if( marks [i] >= 61)
            grade points[i] = 7;
        else if( marks[i] >= 51);
```

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```
            gradepoints[i] = 6;
        else if (marks[i] >= 41)
            gradepoints[i] = 5;
        else if (marks[i] > 0 && marks[i] < 40)
            gradepoints[i] = 0;
        sgpa = sgpa + (gradepoints[i] * credits[i]);
    }
  }
}

class Lab2
{
    public static void main(String args[])
    {
        Student std1 = new Student();
        std1.getdetails();
        std1.sgpa();
        std1.displaydetails();
    }
}
```

OUTPUT:

```
Enter Name of the Student: KIRAN
Enter the USN of Student: 1BM19CS299
Enter Credits in the Subjects: 5 5 5 5 4
Enter Marks in the Subjects (0-100): 78 86 87 92 93
Student Name: KIRAN  Student USN: 1BM19CS199
Subject 1 --> Marks scored: 78.0  Credit: 5
Subject 2 --> Marks scored: 86.0  Credit: 5
Subject 3 --> Marks scored: 87.0  Credit: 5
Subject 4 --> Marks scored: 92.0  Credit: 5
Subject 5 --> Marks scored: 93.0  Credit: 4
SGPA: 9.166666666666
```