

Q) Develop a JAVA prog. to create class Student
members name, name, array credits, array marks
include methods to accept and display details
and method to display GPA of student.

$$GPA = \frac{\sum [course credit] [grade]}{\sum [course credit]}$$

```
import java.util.Scanner;
public class Subject {
    int subjectMarks;
    int credits;
    int grade;
}
```

```
public class Student {
    Subject subject[1];
    String name;
    String name;
    double gpa;
    Student s[1];
}
```

```
Subject set = new Subject[1];
for (int i = 0; i < 10; i++) {
    Subject[i] = new Subject();
    Scanner s = new Scanner(System.in);
    System.out.println("Enter Subject Marks");
    System.out.println("Enter Credits");
    System.out.println("Enter Grade");
    System.out.println("Enter Name");
    System.out.println("Enter Name");
    System.out.println("Enter GPA");
}
```

~~void getStudentDetails() {
System.out.print("Enter your name ");
name = s.next();
System.out.print("Enter your name ");
name = s.next();~~

```
void getMarks() {
```

```
    for (int i = 0; i < 8; i++)
```

```
        cout << "Enter marks for
```

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

```
        subject[i].subjectMarks = &nextInt();
```

```
        subject[i].subjectName = &nextStr();
```

```
        subject[i].credit = &nextInt();
```

```
        subject[i].grade = (subject[i].subjectMarks / 10) + 1;
```

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

```
            subject[i].grade = 10;
```

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

```
            subject[i].grade = 4;
```

```
}
```

```
}
```

```
void computeGPA()
```

```
    int effectiveScore = 0;
```

```
    int totalCredits = 0;
```

```
    for (int i = 0; i < 8; i++)
```

```
    {
```

```
        effectiveScore = (subject[i].grade *
```

```
        subject[i].credit);
```

```
        totalCredits += subject[i].credit;
```

```
}
```

```
GPA = effectiveScore / (double)totalCredits;
```

```
}
```

```
class Main
```

```
{public static void main(String args[])
```

```
    Student s1 = new Student();
```

81. get StudentDetails(),
81. getMarks(),
81. computeGPA(),
81. computeGPA("Name : " + s1.getName(),
"in " + USN : " + s1.getUSN() + " in " +
"GPA : " + s1.computeGPA());

Enter your Name Sheeyash

Enter your USN: 18H22C8243

Enter marks for subject 1: 88

Enter credits for subject 1: 4

Enter marks for subject 2: 89

Enter credits for subject 2: 4

Enter marks for subject 3: 92

Enter credits for subject 3: 3

Enter marks for subject 4: 90

Enter credits for subject 4: 89

Enter marks for subject 5: 87

Enter credits for subject 5: 3

Enter marks for subject 6: 86

Enter credits for subject 6: 2

Enter marks for subject 7: 89

Enter credits for subject 7: 2

Enter marks for subject 8: 95

Enter credits for subject 8: 1

Name: Sheeyash

USN: 18H22C8243

⑩

DATA
USN : 18H22C8243