

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 and details and a method to calculate SGPA of a student.

```
→ import java.util.Scanner;
class stu {
    int max_credits[] = {4, 3, 4, 2};
    int ttl_credits = 13;
    static String subjects[] = {"sdm", "oog", "dbms", "ds"};
    String usn;
    String name;
    static int n = 4;
    int marks_earned[] = new int[n];
    int marks_earned gp[] = new int[4];
    int gp_c[] = new int[4];
    float tt_gp = 0;
    void pub() {
```

```

Scanner s1 = new Scanner(System.in);
System.out.println("Enter the values of s1 : ");
System.out.print("name : ");
name = s1.next();
System.out.println("usn : ");
usn = s1.next();
System.out.println("Enter the marks: ");
for (int i = 0; i < stu.n; i++) {
    System.out.print(stu.subjects[i] + " : ");
    marks_earned[i] = s1.nextInt();
}

void display () {
    tt_gp = 0;
    System.out.println("\n\n");
    System.out.print("name : " + name + "\nusn : " + usn);
    for (int i = 0; i < stu.n; i++) {
        if (marks_earned[i] >= 90 && marks_earned[i] < 90) {
            gp[i] = 9;
        }
        else if (marks_earned[i] >= 80 && marks_earned[i] < 90) {
            gp[i] = 8;
        }
        else if (marks_earned[i] >= 70 && marks_earned[i] < 80) {
            gp[i] = 7;
        }
        else if (marks_earned[i] >= 60 && marks_earned[i] < 70) {
            gp[i] = 6;
        }
        else if (marks_earned[i] >= 50 && marks_earned[i] < 60) {
            gp[i] = 5;
        }
        else if (marks_earned[i] >= 40 && marks_earned[i] < 50) {
            gp[i] = 4;
        }
        else if (marks_earned[i] >= 30 && marks_earned[i] < 40) {
            gp[i] = 3;
        }
        else if (marks_earned[i] >= 20 && marks_earned[i] < 30) {
            gp[i] = 2;
        }
        else if (marks_earned[i] >= 10 && marks_earned[i] < 20) {
            gp[i] = 1;
        }
        else if (marks_earned[i] >= 0 && marks_earned[i] < 10) {
            gp[i] = 0;
        }
    }
}

```



```

else if (marks-earned[i] >= 40 && marks-earned[i] <
50) {
    gp[i] = 5;
}
else {
    gp[i] = 0;
}
}
for (int i = 0; i < n; i++) {
    gp-c[i] = g[i] * max-credits[i];
}
for (int i = 0; i < 4; i++) {
    tt-gp = tt-gp + gp-c[i];
}
float sgpa-x = tt-gp / tt-credits;
System.out.print ("sgpa : " + sgpa-x);
}
}

```

```

public class sgpa {
    public static void main (String [] args) {
        Stu s1 = new Stu();
        Stu s2 = new Stu();
        s1.put();
        s1.display();
    }
}

```

Multiple
Student
Object

O/P :

Enter number of Subjects : 3.

Student name : vday

UBN : 24 BECS403.

Enter max credits :

Sub 1 : 4

Sub 2 : 4

Sub 3 : 3.

Enter marks for each Subject :

marks Sub 1 : 75

marks Sub 2 : 67

marks for Sub 3 : 79

Student details :

Name : V Jay

USN : 248EC8403

SEIP A : ~~7.66~~