Java lab program

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IBM18CS012

week-4

lab program-2

```java
import java.util.*;

class student {
    String usn, name;
    Static int credits[];
    Static double marks[];

    void student Input (int n) {
        Scanner sc = new scanner (system.in);
        system.out.println ("enter usn and name");
        usn = sc.nextLine ();
        name = sc.nextline ();
        system.out.println ("enter marks along with credits");
        for (int i=0; i<n; i++) {
            marks[i] = sc.nextDouble ();
            credits[i] = sc.nextInt ();
            system.out.println ();
        }
    }

    double calculate (int n) {
        int c, cred = 0;
        double tot, total = 0.0;
        for (int i=0; i<n; i++) {
            tot = marks[i];
            if (tot >= 90)
                c = 10;
```

```
else if (tot >= 80)

    c = 9;

else if (tot >= 70)

    c = 8;

else if (tot >= 60)

    c = 7;

else if (tot >= 50)

    c = 6

else if (tot >= 40)

    c = 4;

else

    c = 0;

total = total + (c * credits[i]);

    cred = cred + credits[i];

}

    total = total / cred;

    return (total);

}

void StudentDisplay (int n, double total) {

    System.out.println ("name of student: " + name);

    System.out.println (" usn of student: " + usn);

    System.out.println ("marks of student along with
                            credits of course");

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

```java
System.out.println(marks[i] + " " + credits[i]);
}
System.out.println("sgpa of student: " + total);
}

public static void main(String args[]) {
    Scanner sc = new Scanner(System.in);
    Student obj = new Student();
    System.out.println("enter no of course");
    int n = sc.nextInt();
    credits = new int[n];
    marks = new double[n];
    obj.studentInput(n);
    double total = obj.calculate(n);
    obj.studentDisplay(n, total);
}
}
```