

## WEEK 4

```
import java.util.*;
```

```
public class Student
```

```
{
```

```
    String USN
```

```
    String name;
```

```
    int credits[7];
```

```
    int marks[7];
```

```
    Student(String USN, String name, int credits[7], int marks[7])
```

```
{
```

```
        this.USN = USN;
```

```
        this.name = name;
```

```
        this.credits = credits;
```

```
        this.marks = marks;
```

```
}
```

```
    void grade-points(int n)
```

```
{
```

```
        int i;
```

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

```
{
```

```
            if (marks[i] > 90 && marks[i] <= 100)
```

```
{
```

```
                marks[i] = 10;
```

```
}
```

```
            else if (marks[i] > 80 && marks[i] <= 90)
```

```
{
```

```
                marks[i] = 9;
```

```
}
```

```
            else if (marks[i] > 70 && marks[i] <= 80)
```

```
{  
    marks[i] = 8;  
}  
else if (marks[i] > 60 & marks[i] <= 70)  
{  
    marks[i] = 7;  
}  
else if (marks[i] > 50 & marks[i] <= 60)  
{  
    marks[i] = 6;  
}  
else if (marks[i] > 40 & marks[i] <= 50)  
{  
    marks[i] = 4;  
}  
else if (marks[i] < 40)  
{  
    marks[i] = 0;  
}  
}  
  
int calc_SGPA(int n)  
{  
    int i, s = 0;  
    for (i = 0; i < n; i++)  
    {  
        s = s + (credits[i] * marks[i]);  
    }  
    return s;  
}
```



```
void display (int SGPA ,int total)
{
    System.out.println("The student with VIN: " + VIN + ", Name: " + name +
        " has SGPA : " + ((float)SGPA/total));
}

public static void main (String [] args)
{
    Scanner sc = new Scanner (System.in);
    int i, n, tot = 0, SGPA;
    System.out.println("Enter the VIN and the name of the student");
    String VIN = new String ();
    String name = new String ();
    VIN = sc.nextLine();
    name = sc.nextLine();
    System.out.println("Enter the names of suspects");
    n = sc.nextInt();
    int[] = new int[n];
    int m[] = new int[n];
    for (i = 0; i < n; i++)
    {
        System.out.println("Enter the credits for suspect : " + (i+1));
        c[i] = sc.nextInt();
        tot = tot + (c[i]);
    }
    for (i = 0; i < n; i++)
    {
        System.out.println("Enter the marks of the student for suspect : " + (i+1));
        m[i] = sc.nextInt();
    }
}
```

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```
Student st = new Student (USN, name, c, m);
```

```
st.gradePoints(n);
```

```
SGPA = st.Calc - SGPA(n);
```

```
st.display(SGPA, tot);
```

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