

## 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] = 5;
    }
    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 USN: " + USN + ", Name: " + name +  
        " has SGPA : " + ((float)SGPA/total));
```

```
}
```

```
public static void main (String args) void input()
```

```
{
```

```
    Scanner sc = new Scanner (System.in);
```

```
    int q, n, tot = 0, SGPA;
```

```
    System.out.println("Enter the USN and the name of the student");
```

```
    String USN = new String ();
```

```
    String name = new String ();
```

```
    USN = sc.nextLine();
```

```
    name = sc.nextLine();
```

```
    System.out.println("Enter the number of suspects");
```

```
    n = sc.nextInt();
```

```
    int[] newSus = new int[n];
```

```
    credit = new int[n];
```

```
    int m[] = new int[n];
```

```
    marks = new int[n];
```

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

```
{
```

```
        System.out.println("Enter the credit for suspect: " + (i+1));
```

```
        credit[i] = sc.nextInt();
```

```
        tot = tot + (i); credit[i];
```

```
}
```

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

```
{
```

```
        System.out.println("Enter the marks of the student for suspect: " + (i+1));
```

```
        marks[i] = sc.nextInt();
```

```
}
```

```
}
```

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

```
{
```

```
    Student st = new Student ();
```

```
    st.input ();
```

```
    st.grade_points ();
```

```
    st.calc_SGPA ();
```

```
    st.display ();
```

```
}
```

```
}
```

(18)