

Date:16-10-2020

```
import java.util.Scanner;

class Student{

String usn;

String name;

int credits[]=new int[10];

int marks[]=new int[10];


void accept()

{

int i;

Scanner myobj=new Scanner(System.in);

System.out.println("Enter the usn of student");

usn=myobj.nextLine();

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

name=myobj.nextLine();

System.out.println("Enter the credits and marks");

for(i=0;i<5;i++)

{

    System.out.println("Enter the credits for Subject"+(i+1)+":");

    credits[i]=myobj.nextInt();

    System.out.println("Enter the marks of Subject"+(i+1)+":");

    marks[i]=myobj.nextInt();

}
```



```

}
}
void display()
{
    System.out.println("USN:"+usn);
    System.out.println("Name:"+name);
    for(int i=0;i<5;i++)
    {
        System.out.println("Credits of Subject"+(i+1)+":"+credits[i]);
        System.out.println("Marks of Subject"+(i+1)+":"+marks[i]);
    }
}
double calc_sgpa()
{
    int grade_points[]=new int[10],i;
    for(i=0;i<5;i++)
    {
        if(marks[i]>=90)
            grade_points[i]=10;
        if(marks[i]>=80 && marks[i]<90)
            grade_points[i]=9;
        if(marks[i]>=70 && marks[i]<80)
            grade_points[i]=8;
        if(marks[i]>=60 && marks[i]<70)

```



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        grade_points[i]=7;
    if(marks[i]>=50 && marks[i]<60)
        grade_points[i]=6;
    if(marks[i]>=40 && marks[i]<50)
        grade_points[i]=4;
    if(marks[i]>=0 && marks[i]<40)
        grade_points[i]=0;
    }

    double numerator=0,sum_credits=0,sgpa;

    for(i=0;i<5;i++)
    {
        numerator+=grade_points[i]*credits[i];
        sum_credits+=credits[i];
    }

    sgpa=numerator/sum_credits;

    return sgpa;
}
}

```

```

class Student_Program{
    public static void main(String[] args){
        double SGPA;
        Student s=new Student();
        s.accept();
    }
}

```



```
s.display();

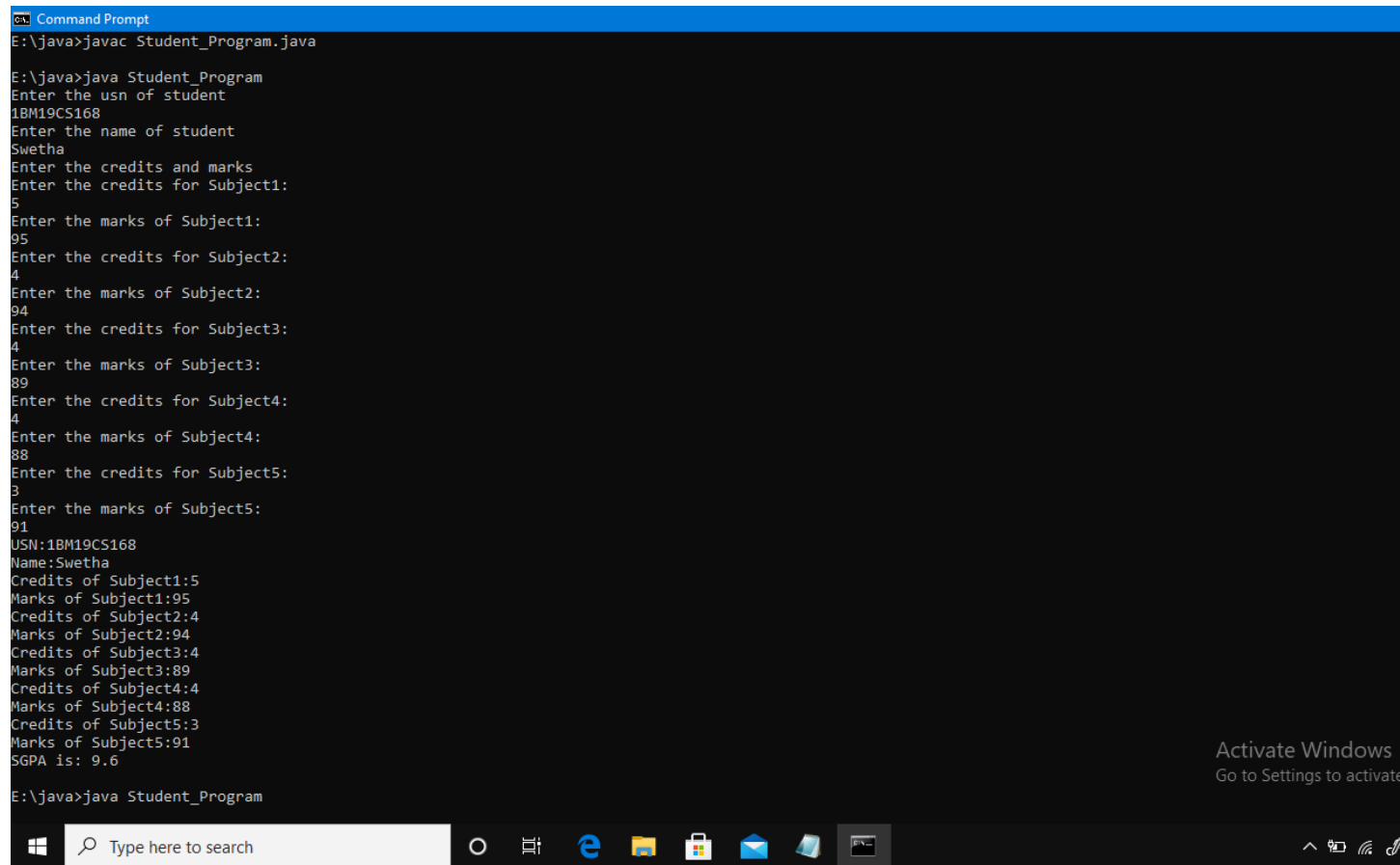
SGPA=s.calc_sgpa();

System.out.println("SGPA is: "+SGPA);

}

}
```

Output



```
Command Prompt
E:\java>javac Student_Program.java

E:\java>java Student_Program
Enter the usn of student
1BM19CS168
Enter the name of student
Swetha
Enter the credits and marks
Enter the credits for Subject1:
5
Enter the marks of Subject1:
95
Enter the credits for Subject2:
4
Enter the marks of Subject2:
94
Enter the credits for Subject3:
4
Enter the marks of Subject3:
89
Enter the credits for Subject4:
4
Enter the marks of Subject4:
88
Enter the credits for Subject5:
3
Enter the marks of Subject5:
91
USN:1BM19CS168
Name:Swetha
Credits of Subject1:5
Marks of Subject1:95
Credits of Subject2:4
Marks of Subject2:94
Credits of Subject3:4
Marks of Subject3:89
Credits of Subject4:4
Marks of Subject4:88
Credits of Subject5:3
Marks of Subject5:91
SGPA is: 9.6

E:\java>java Student_Program
```

Activate Windows
Go to Settings to activate