

## LAB PROGRAM 2- SGPA CALCULATION

```
import java.util.*;

class student
{
    String usn;
    int marks[]=new int[5];
    int credits[]=new int[5];
    String name;

    void input()
    {
        System.out.println("Enter the usn:");
        Scanner sc = new Scanner(System.in);
        usn =sc.nextLine();
        System.out.println("Enter the name:");
        name = sc.nextLine();
        System.out.println("Enter the marks of each subject");
        for(int i=0;i<5;i++)
        {
            marks[i]=sc.nextInt();
        }
        System.out.println("Enter the credits of each Subject");
        for(int i=0;i<5;i++)
        {
            credits[i]=sc.nextInt();
        }
    }

    void output()
    {
        System.out.println("Name: "+name);
```

```

System.out.println("USN: "+usn);
for(int i=0;i<5;i++)
{
    System.out.println("Marks of subject_"+(i+1)+"= "+marks[i]);
    System.out.println("Credits of subject_"+(i+1)+"= "+credits[i]);
}
}
void cgpa()
{
    int cred[] = new int[5];
    double sgpa;
    int sum=0;
    int num=0;
    for (int i=0;i<5;i++)
    {
        if(marks[i]>0)
        {
            if(marks[i]>=90)
                cred[i]=10;
            else if(marks[i]>=80 && marks[i] <90)
                cred[i]=9;
            else if(marks[i]>=70 && marks[i] <80)
                cred[i] = 8;
            else if(marks[i]>=60 && marks[i] <70)
                cred[i] = 7;
            else if(marks[i]>=50 && marks[i] <60)
                cred[i] = 6;
            else if(marks[i]>=40 && marks[i] <50)
                cred[i] = 5;
            else
                cred[i] =0;
        }
    }
}

```

```

    }
    else
        System.out.println("Invalid input");
    num+=(cred[i]*credits[i]);
    sum+=credits[i];
    }
    sgpa=(double)num/sum;
    System.out.println("SGPA IS: "+sgpa);
    }
    }
    class sgpa
    {
    public static void main(String args[])
    {
    student vs = new student();
    vs.input();
    vs.output();
    vs.cgpa();
    }
    }

```

OUTPUT:

CA: Command Prompt

Enter the marks of each subject

90

89

78

89

90

Enter the credits of each Subject

3

4

4

3

3

Name: VYLERI KEZHEKE SIDDHARTH

USN: 1BM21CS247

Marks of subject\_1= 90

Credits of subject\_1= 3

Marks of subject\_2= 89

Credits of subject\_2= 4

Marks of subject\_3= 78

Credits of subject\_3= 4

Marks of subject\_4= 89

Credits of subject\_4= 3

Marks of subject\_5= 90

Credits of subject\_5= 3

SGPA IS: 9.117647058823529

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