LAB PROGRAM 2:

Develop a Java program to create a class Student with members usn, name, an array credits and an array marks. Include methods to accept and display details and a method to calculate SGPA of a student.

CODE SNIPPET:

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```
Develop a Java program to create a class student with
members USN, name an array credits and an array marks,
include methods to accept and display details and a method to
calculate SGPA of a student.

import java.util.Scanner;
class student
{
    string name, USN;
    int marks [ ] = new int [ ]
    int credits [ ] = new int [ ]

    void input( )
    {
        Scanner ss = new Scanner (System.in);
        System.out.println("Enter your name : ")
        name = ss.nextline();
        System.out.println(" Enter your USN : ");
        USN = ss.next( );
        System.out.println(" Enter the marks of each Subject : ");
        for (int i=0; i<5 ; i++ )
        {
            marks [i] = ss.nextInt();
        }
        System.out.println(" Enter the no of credits for each Subject : ");
        for (int i= 0 ; i<5; i++ )
            credits [i] = ss.nextInt();
    }
```

```
void display ()
{
    System.out.println(" NAME : " + name);
    System.out.println(" USN:  " + USN);
    for (int i = 0; i < 5; i++)
    {
        System.out.println(" Marks of each subject + (i+1) +
        " = " + marks [i]);
        System.out.println(" Number of Credits for each
        Subject " + (i+1) + " =  " + credits[i]);
    }
}


void calc ()
{
    int gr_point[ ] = new int [5];
    int Sgpa = 0;
    int Som = 0; float res;
    for (int i = 0; i < 5 ; i++)
    {
        if (marks[i] >= 90 )
            gr-point [i] = 10;
        else if (marks[i] >= 80 )
            gr-point [i] = 9;
        else if (marks[i] >= 70)
            gr-point [i] = 8;
        else if (marks[i] >= 60 )
            gr-point[i] = 7;
        else if (marks[i] >= 50)
            gr-point[i] = 6;
        else if (marks[i] >= 40)
            gr-point[i] = 5;
```

```
            else if ( marks[i] >= 35)
                ga-point = 4;
            else if (marks[i] < 35 && marks 30)
                ga-point = 0;
            else
                System.out.println ("Invalid marks..");
        for ( int i=0 ; i<5 ; i++ )
        (subject " + (i+1) + " entered ... Try Again");
            sgpa += ( ga-point [i] * (credits [i]);
            sum += (credits [i]);
        }
        res = (float) sgpa (sum;
        System.out.println ("sgpA = " + res );
    }
}

Class sgpr
{
    public static void main (String xx[] )
    {
        student s1 = new student();
        s1. input();
        s1. display();
        s1. calc();
    }
}
```

OUTPUT:

```
C:\Users\bmsce\Desktop>javac sgpa.java

C:\Users\bmsce\Desktop>java sgpa
Enter your name :
anagha
Enter your usn:
1bm21cs022
enter the marks of each subject:
89
90
67
99
95
enetr the number of credits of each subject:
4
4
3
2
4
NAME :anagha
USN :1bm21cs022
Marks of each subject is89
number of credits for each subject1= 4
Marks of each subject is90
number of credits for each subject2= 4
Marks of each subject is67
number of credits for each subject3= 3
Marks of each subject is99
number of credits for each subject4= 2
Marks of each subject is95
number of credits for each subject5= 4
sgpa= 9.235294
```