

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.

```
import java.util.Scanner;

class Studentsgpa{

    int USN;

    String Name;

    int Credits[]=new int[5];

    int Marks[]=new int[5];

    Scanner s1=new Scanner(System.in);

    void accept()

    {

        System.out.println("Enter the usn:");

        USN=s1.nextInt();

        System.out.println("Enter the name:");

        Name=s1.next();

        System.out.println("Enter the credits:");

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

        {

            Credits[i]=s1.nextInt();

        }

        System.out.println("Enter the marks:");

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

        {

            Marks[i]=s1.nextInt();

        }

    }

    void display()

    {

        System.out.println(" The usn and name is:"+USN+" "+Name);

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

        {
```

```
System.out.println("Marks is"+Marks[i]);
}}
int Creditscal(int Marks)
{
if(Marks>=90)
{
return 10;
}
else if(Marks>=80)
{
return 9;
}
else if(Marks>=70)
{
return 8;
}
else if(Marks>=60)
{
return 7;}
else if(Marks>=50)
{
return 6;}
else
{
return 0;}
}
double sgpacal()
{
double totalcredits=0.0,totalmarks=0.0;
for(int i=0;i<5;i++)
{
```

```

totalcredits+=Credits[i];
totalmarks+=Creditscal(Marks[i])*Credits[i];
}
return totalmarks/totalcredits;
}}
class Sgpacal
{
public static void main(String xx[])
{
Studentsgpa a1=new Studentsgpa();
a1.accept();
a1.display();
double sgpa=a1.sgpacal();
System.out.println("SGPA is:"+sgpa);
}
}

```

Output:

```

C:\Users\Lakshitha.L\Desktop\java lab>javac Sgpacal.java
C:\Users\Lakshitha.L\Desktop\java lab>java Sgpacal
Enter the usn:
1
Enter the name:
ABC
Enter the credits:
4
4
4
4
4
Enter the marks:
99
98
97
90
99
The usn and name is:1 ABC
Marks is99
Marks is98
Marks is97
Marks is90
Marks is99
SGPA is:10.0

```