## Lab programme 2

```
import java.util.Scanner;
class Student {
    String usn;
    String name;
    int[] credits;
    int[] marks;
    Scanner sc=new Scanner(System.in);
    Student()
    {
        inputData();
    public void inputData(){
        System.out.println("enter your usn and name ");
        usn=sc.next();
        name=sc.nextLine();
        int totalSub=0;
        System.out.println("enter number of subjects");
        totalSub=sc.nextInt();
        System.out.println("enter number of credits and marks you got in each su
        credits=new int[totalSub];
        marks=new int[totalSub];
        for(int i=0;i<totalSub;i++)</pre>
        {
            System.out.print("enter credits and marks for subject"+i+": ");
            credits[i]=sc.nextInt();
            marks[i]=sc.nextInt();
        sgpacalc();
     }
     public void sgpacalc()
         int totalCreditsEarned=0;
         int totalCredits=0;
```

Lab programme 2

```
for(int i=0;i<marks.length;i++)</pre>
    {
        totalCreditsEarned+=sgpascale(marks[i])*credits[i];
        totalCredits+=credits[i];
    }
    System.out.println("name: "+name+"\nusn:"+usn+ "\nscored "+(totalCredit
}
public int sgpascale(int marks)
    if(marks>=90)
    {
        return 10;
    else if (marks>=80 && marks<90) {
        return 9;
    }
    else if (marks>=70 && marks<80) {
        return 8;
    }
    else if (marks>=60 && marks<70) {
        return 7;
    }
    else if (marks > = 50 \&\& marks < 60) {
        return 6;
    }
    else if (marks>=40 && marks<50) {
        return 5;
    }
    else {
        return 0;
    }
}
```

Lab programme 2

```
}
class cgpacalc{

   public static void main(String[] args) {
       Student st=new Student();
   }
}
```

## OUTPUT

```
enter your usn and name

1BM23CS334 SOHAM

enter number of subjects

4

enter number of credits and marks you got in each subject respectively
enter credits and marks for subject0: 4 98
enter credits and marks for subject1: 3 90
enter credits and marks for subject2: 4 95
enter credits and marks for subject3: 2 100
name: SOHAM
usn:1BM23CS334
scored 10SGPA
```

Lab programme 2 3

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	import java . Uti LAB PROGRA MME 2 1 1/22
	[Marks = Man Floor [ total 50 ]
g	Develop a Java programme to create a class
	Student with members usn name, an array
	and an array marks include methods to
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	credited (1) - se nort totil)
	10 to 172400 08 = (i) 2 xxm
	import javal, util, Scanner;
	crass Student of (12/102.09 pz
	String usn;
	String name;
in i	înt [] exedits; / Inlangapo bian ildug
	float (1 maxks;
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	Scanner Sc = new Scanner (System) in ); tolt
	Student () of A 2+12+20 West + 101
	input Data () forest som si " O=1 +01 xot
	<u> </u>
· (Artillis	public vaid input Data ( ) from the think
	System. out. print in (11 Enter your usn and name: ");
	1150 = 000 (1 7 1 / )
40.	USn = sc. next Int ();
1112 +	name = scaneraline () in ) at aning tun mitsuel
1149001	intellatalisub = Organianist . harman
	System. out. print ("Enter total subjects:")
1017	totalsub = sc. nex+Int();
	System.out.println();
	object of main )

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marks = new float [total Sub];
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Jox (inti = 0; ix total Sub; i++)
inch on navay masks inducte medling to
System. out. print ("Enter exedits and maxis for subject
credits [i] - sconextInt();
maxks [i] = oc. DextFloat ();
* reasons liter to be tragmil
spacale();
Marin point ?
1 String names
public void sapa calc () : stibus 17 201
anti-
floot total Credits Earned = Of;
int total Credits = 0;
for (int i=0; i< marks-length; nitte).
9
total Credits Garnedt = scaled (maxis [i]) * credits[i];
2 total Credits + = oredits [i]; har many
System. out. Print In ("Name: + name+"\n usn: +usn+
"In scored" (total Credits Farned /total Credits) + "SGPA");
- Constitute that wand " - nix quiture maley?
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	mublic static wash main (string [] ares) a
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- 46	d return 10;
	7
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ersgerick.	a return 9;
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-	else if (max 145 >= 70 & & maxks < 80)
	adaseturn8;
7	Fater nimber of subjects 4
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	the se braides wot estan los stibers raind
	else if (marks ) = 40 & 6 marks (50)
	& return 5; }
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	else de passicand, Mell
	return O; Anno D broad
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Output	-
	7
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Enter number of subjects 4	
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Enter number of credits and marks score	
each subject	£
Enter credits and maximus for subject 1:	4:193
Enter credits and marks for subject of	4 88
Enter credits and marks for subject 3:	3 78
Enter exedits and marks for subject 4:	1.90
means to the second of the present	
name: SOHAM ARORA	
USN: 1BM23CS334	0 0210
scored 9 56PA	
1/10/24	5
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