

6/10/20

IBMI9CS090

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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:

import java.util.Scanner;

class Student

{ private

String usn, name;

float cr[] = new float[5];

float m[] = new float[5];

public

Scanner s = new Scanner (System.in);

void getdet()

{

System.out.println ("Enter Name:");

name = s.next();

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

usn = s.next();

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

{

System.out.println ("Enter Credits for Subject "+(i+1));

cr[i] = s.nextFloat();

System.out.println ("Enter Marks for subject "+(i+1));

m[i] = s.nextFloat();

}

}

public void printdet()

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```
{
    System.out.println("Student Details are,");
    System.out.println("Name: " + name);
    System.out.println("USN: " + usn);
    for (int i = 0; i < 5; i++)
    {
        System.out.println("Subject " + (i+1) + " Credits: " + cr[i]);
        System.out.println("Subject " + (i+1) + " Marks: " + m[i]);
    }
}
```

public void scgpa()

```
{
    int a;
    float scg = 0, tot = 0;
    for (int i = 0; i < 5; i++)
    {
        tot += cr[i];
    }
    for (int i = 0; i < 5; i++)
    {
        if (m[i] >= 90)
            a = 10;
        else if (m[i] >= 80)
            a = 8;
        else if (m[i] >= 70)
            a = 7;
        else if (m[i] >= 60)
            a = 6;
        else if (m[i] >= 50)
            a = 5;
        else
            a = 4;
        scg += ((cr[i] * a) / tot);
    }
}
```

```
System.out.println("SCGP is " + scg);
```

}

class main

18M19CS090

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{

public static void main (String args[])

{

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Student s1 = new Student();

s1.getdet();

s1.printdet();

s1.segpa();

}

}

```
2
3 class Student
4 {
5     private
6         String usn,name;
7         float cr[]=new float[5];
8         float m[]=new float[5];
9     public
10         Scanner s=new Scanner(System.in);
11         void getdet()
12         {
13
14             System.out.println("Enter Name:");
15             name=s.next();
16             System.out.println("Enter USN:");
17             usn=s.next();
18             for(int i=0;i<5;i++)
19             {
20                 System.out.println("Enter Credits for subject "+(i+1)+":");
21                 cr[i]=s.nextFloat();
22                 System.out.println("Enter Marks for subject "+(i+1)+"(for 100):");
23                 m[i]=s.nextFloat();
24             }
25         }
26         public void printdet()
27         {
28             System.out.println("Student Details are,");
29             System.out.println ("Name:"+name);
30             System.out.println ("USN:"+usn);
31             for(int i=0;i<5;i++)
32             {
33                 System.out.println("Subject "+(i+1)+" Credits:"+cr[i]);
34                 System.out.println("Subject "+(i+1)+" Marks:"+m[i]);
35             }
36         }
37         public void scgpa()
38         {
39             int a;
40             float scgp=0,tcr=0;
41             for(int i=0;i<5;i++)
42             {
43                 tcr+=cr[i];
44             }
45             for(int i=0;i<5;i++)
46             {
47                 if(m[i]>=90)
48                     a=10;
49                 else if(m[i]>=80)
50                     a=8;
51                 else if(m[i]>=70)
52                     a=7;
53                 else if(m[i]>=60)
54                     a=6;
55                 else if(m[i]>=50)
56                     a=5;
57                 else
58                     a=4;
59                 scgp+=((cr[i]*a)/tcr);
60             }
61             System.out.println("SCGP is "+scgp);
62         }
63     }
64
65 class main
66 {
67     public static void main(String args[])
68     {
69         float scgp;
70         Scanner n=new Scanner(System.in);
71         Student s1=new Student();
72         s1.getdet();
73         s1.printdet();
74         s1.scgpa();
75     }
76 }
```



```
Enter Name:
rahil
Enter USN:
1BM19CS090
Enter Credits for subject 1:
5
Enter Marks for subject 1(for 100):
87
Enter Credits for subject 2:
4
Enter Marks for subject 2(for 100):
91
Enter Credits for subject 3:
4
Enter Marks for subject 3(for 100):
81
Enter Credits for subject 4:
4
Enter Marks for subject 4(for 100):
76
Enter Credits for subject 5:
3
Enter Marks for subject 5(for 100):
71
Student Details are,
Name:rahil
USN:1BM19CS090
Subject 1 Credits:5.0
Subject 1 Marks:87.0
Subject 2 Credits:4.0
Subject 2 Marks:91.0
Subject 3 Credits:4.0
Subject 3 Marks:81.0
Subject 4 Credits:4.0
Subject 4 Marks:76.0
Subject 5 Credits:3.0
Subject 5 Marks:71.0
SCGP is 8.05

Process finished.
```