week 4.

Date 6/10/20

Expt. No. 2

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Q. Java program to find SGPA of students.

```
import java.util.Scanner;
class student{
Scanner sc = new Scanner(System.in);
String USN;
String Name;
int credits[] = new int[5];
double marks[] = new double[5];
int point[] = new int[5];
float SGPA;
int total credits = 0;

void getStudentData()
{
System.out.println("Enter the student USN:");
 USN = sc.nextLine();
System.out.println("Enter the student Name:");
Name = sc.nextLine();
for(int i=0; i<5, i++)
{
System.out.println("Enter the credits of the
   subject" + (i+1) + ":");
credits[i] = sc.nextInt();
totalCredits += credits[i];
System.out.println("Enter the marks of the
 subject" + (i+1) + ":");
 marks[i] = sc.nextDouble();
}
}
```

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```
Void showStudentData();
{
System.out.println("Student USN:"+ USN);
System.out.println("Student Name:"+ Name);
for(int i=0; i<5, i++)
 {
System.out.println("subject"+(i+1)+"credits:"
    + credits[i]+"marks:"+ marks[i]);
 }
System.out.println("SGPA of"+ Name+"is"+
                (float)(SGPA/total(credits));
}

Void calSgpa()
{
for(int i=0, i<5, i++)
 {
  if( marks[i]<0 || marks[i]>100)
  {
  System.out.println("marks are invalid");
    return;
  }
else if(marks[i]>=90)
  {
    point[i]=10;
  }
else if(marks[i]>=80 && marks[i]<90)
  {
  point[i]=9;
  }
```

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```
else if (marks [i] >=70 && marks[i] <80)
    {
    Point [i] = 8;
    }
else if (marks [i] >=60 && marks [i] <70)
    {
    point [i] = 7
    }
else if (marks[i] >=50 && marks[i] <60)
    {
    point [i] = 5
    }
else if (marks[i] >=40 && marks [i] <50)
    {
    point [i] = 4
    }
else{
    point [i] = 0
    }
SGPA += (point [i] * credits [i]);
    }
  }
}
.
public class Stumain
{
public static void main (String[] args)
{
Student stu1 = new student();
```

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```
Stu1.getStudentData();
Stu1.calGpa();
Stu1.showStudentData();
}
}
```

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