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import java.lang.*;
import java.io.*;
import java.util.*;
import java.util.Scanner;
public class Grade_Calculator
{
      static char grade;
      static double grade_point;
      static double cred;
      static double sum_cred_point=0;
      static double cred1=0;
      static double s1=0;
      static int q;
      public static void main(String[] args)
            Scanner sc=new Scanner(System.in);
            System.out.println("
            System.out.println(" ");
            System.out.println("
                                  ^^*** WELCOME ***^^");
            System.out.println("_
            System.out.println(" ");
            System.out.println("Enter The Operation To Be Performed :-");
            System.out.println(" ");
            System.out.println("1. SGPA CALCULATOR");
            System.out.println("2. CGPA CALCULATOR");
            System.out.println("3. PERCENTAGE CALCULATOR");
            System.out.println(" ");
            System.out.println("Enter Your Choice From Above");
            int choice=sc.nextInt( );
            System.out.println(" ");
            switch(choice)
            {
                case 1: System.out.println("Enter The No. Of Subjects You
Have :-");
                int n=sc.nextInt( );
                for(int i=1;i<=n;i++)</pre>
                {
                    System.out.println(" ");
                    System.out.printf("Enter Information About Subject %d\n",i);
                    System.out.println(" ");
                    System.out.println("Enter Subject Credit In Digits :");
                    double cred_point=sc.nextDouble( );
                    System.out.println(" ");
                    System.out.println("Enter Subject Grade In Capital :");
                    grade=sc.next( ).charAt(0 );
                    System.out.println("______
                                                                         _");
            if(grade=='0')
            {
                grade_point=10;
            else if(grade=='E')
                grade_point=9;
            else if(grade=='A')
                grade_point=8;
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else if(grade=='B')
                grade_point=7;
            else if(grade=='C')
                grade_point=6;
            else if(grade=='D')
                grade_point=5;
            else if(grade=='F')
                grade_point=2;
            else if(grade=='M')
                grade_point=0;
            else if(grade=='S')
                grade_point=0;
            if(i \le n)
                 cred =cred_point * grade_point;
                 cred1=cred1+cred;
                 sum_cred_point=sum_cred_point+cred_point;
            }
                double sgpa=cred1/sum_cred_point;
                System.out.println("Take Your SGPA Correct To Two Decimal Places");
                System.out.println(" ");
                System.out.println("Your SGPA is " +sgpa);
                System.out.println(" ");
                System.out.println("_
                System.out.println(" ");
System.out.println(" "/
                                        ^^** THANK YOU ***^^");
                System.out.println("_
                case 2: System.out.println("Enter The Number Of Semesters You
Have :-");
                int m=sc.nextInt( );
                    System.out.println(" ");
                    System.out.println("Please Enter Your Corresponding Semester
SGPA :");
                    System.out.println(" ");
                  for(int j=1;j<=m;j++)
                {
                     System.out.printf("SGPA Of Semester %d is :\n",j);
                     double s=sc.nextDouble( );
```

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_");
                       System.out.println("_
                       System.out.println(" ");
                        a=m;
                       s1=s1+s;
                  double cgpa=s1/q;
                  System.out.println("Take Your CGPA Correct To Two Decimal Places");
                  System.out.println(" ");
System.out.println("Your CGPA is " + cgpa);
                  System.out.println(" ");
System.out.println(" ______
                  System.out.println(" ");
System.out.println(" ^^*** THANK YOU ***^^");
System.out.println("______
                  break;
                  case 3: System.out.println("Enter Your CGPA :-");
                  double cgpa_ = sc.nextDouble( );
                  double percent = ((cgpa_ - 0.5)*10);
                  System.out.println("
                  System.out.println("Take Your PERCENTAGE Correct To Two Decimal
Places");
                  System.out.println(" ");
                  System.out.println("Your PERCENTAGE is " + percent);
                  System.out.println(" ");
                  System.out.println("_
                  System.out.println(" ");
System.out.println(" ^^*** THANK YOU ***^^");
System.out.println("______
                  break;
                  default : System.out.println("Invalid Input");
                  System.out.println(" ");
                  System.out.println("__
                  System.out.println(" ");
                  System.out.println(" !!! PLEASE TRY AGAIN !!!");
System.out.println(" ");
             }
       }
}
```