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RunScoredGiven.java 🖴
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           Saved
  import java.util.Scanner;
  abstract class PLAYER{
       String name;
       int matches_played;
       float average;
       abstract float cal_avg();
  class BATSMAN extends PLAYER{
        int runs_scored;
       float cal_avg(){
            return average=runs_scored/matches_played;
3 }
4 class BOWLER extends PLAYER{
       int runs_given;
         float cal_avg(){
           return average=runs_given/matches_played;
19 }
20 class PlayerMain{
       public static void main(String args[]){
             int m,n;
             Scanner ss=new Scanner(System.in);
            System.out.print("Enter Number of Batsmen:");
            m=ss.nextInt();
             System.out.print("Enter Number of Bowlers:");
            n=ss.nextInt();
            BATSMAN BA[]=new BATSMAN[m];
            BOWLER BO[]=new BOWLER[n];
             for(int i=0; i < m; i++){
                  BA[i]=new BATSMAN();
                  System.out.print("\nEnter Batsman "+(i+1)+" Details below,");
System.out.print("\nEnter Name:");
                  BA[i].name=ss.next();
                  System.out.print("Enter number of matches played:");
                  BA[i].matches_played=ss.nextInt();
                  System.out.print("Enter total runs scored:");
                  BA[i].runs_scored=ss.nextInt();
              for(int i=0;i<n;i++){
                  BO[i]=new BOWLER();
                  System.out.print("\nEnter Bowler "+(i+1)+" Details below,");
System.out.print("\nEnter Name:");
                  BO[i].name=ss.next();
                                               er number of matches played:");
                  System.out.print("En
                  BO[i].matches_played=ss.nextInt();
                  System.out.print("Ent
                  BO[i].runs_given=ss.nextInt();
              for(int i=0; i < m; i++){
                   System.out.print("\nBatsman "+(i+1)+" Details,");
System.out.print("\nName:"+BA[i].name);
System.out.print("\nMatches Played:"+BA[i].matches_played);
System.out.print("\nTotal runs scored:"+BA[i].runs_scored);
System.out.print("\nAverage runs scored:"+BA[i].cal_avg());
             for(int i=0;i<n;i++){
                   System.out.print("\nBowler "+(i+1)+" Details,");
System.out.print("\nName:"+BO[i].name);
System.out.print("\nMatches Played:"+BO[i].matches_played);
System.out.print("\nTotal runs Conceded:"+BO[i].runs_given);
                   System.out.print("\nAverage runs scored:"+B0[i].cal_avg());
              }
```

}

55 }

Process finished.

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scgpa.java 🖴
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  class Student
      String usn, name;
      float cr[]=new float[5];
float m[]=new float[5];
      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)+"(for 100):");
           m[i]=s.nextFloat();
         }
       public void printdet()
         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()
         float scg=0,tcr=0;
         for(int i=0;i<5;i++)
           tcr+=cr[i];
         for(int i=0;i<5;i++)</pre>
             if(m[i] \ge 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;
            a=4;
             scg+=((cr[i]*a)/tcr);
         System.out.println("SCGP is "+scg);
3 }
 class main
    public static void main(String args[])
       float scgp;
      Scanner n=new Scanner(System.in);
      Student s1=new Student();
      s1.getdet();
      s1.printdet();
      s1.scgpa();
76 }
```

```
Terminal
  ×
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:
Enter Marks for subject 2(for 100):
Enter Credits for subject 3:
4
Enter Marks for subject 3(for 100):
Enter Credits for subject 4:
Enter Marks for subject 4(for 100):
76
Enter Credits for subject 5:
Enter Marks for subject 5(for 100):
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.
```