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Extra program -
same program as before but calculate sgpa.
(Package CIE)
(student-java)
package CIE;
public class student {
public int uon, sem;
public String name;
public void get (int u, int s, string n)
 { usn = u;
   sem=s;
   name = n, }
 public void set () {
 System. out. pnn+n ("In NAME = "+name + "In USN = "+usn + "In sem
  + sem);}
 (internals-java)
 package UF;
 impont jewa-util. Scanner;
 public classinkunals extends CIE. student {
 public float inm[];
public internals () {
 Scanner SS = new Scanner (System in);
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inm = new floa + (5);
System. Out-printin ("internals marks for 5 subjects (out of 50):2)
 for (int i=0; ic5; i++) {
 System-Out-printle ("subject "+ (i+1));
 inm [i] = ss. nextfloa+();}
(Package SEE)
(external-java)
Package SEE;
import CIE. +;
import java-util. Scanner.
public class external extends clf. student {
public float exm[];
public external () {
 Scanner ss = new Scanner [system.in].
 exm = new float [5].
 System-out-println ("external marks for 5 subjects (out of 100)!
for lint i = 0; i<5; i++) {
  System-out printin ("subject "+(i+1));
  exm[i] = ss.nex+Float(); }
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(credits. java)
package SEE;
import CIE+,
import java · util· Scanner;
public class chedits extends CIE. student {
public float and [];
 public credits () {
 Scanner SS = new Scanner (System in)
 Cred = new flout [5];
 System-out println ('subject enter redits of the 5 subjects ")
 for (int i=0; i<5; i++) { )+11+
  System-out println (" subject" + (i+1));
 and [i] = ss.nextPloat(); }
 (Driver class)
 (sgpa.java)
 impon- CIE. +; - ( )
 emport SEE. +;
 import java util-sunner;
 class sgpa & 2 - 0 (02) Till at at of =
 public static void main (String args []) }
   Scanner ss = new Scanner (System in);
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	Date Page
	int g = 6;
	float sum = 0, sum 2 = 0;
	Hoat sq.
	System. out-printer ("enter the no. of students").
	int no = ss.nex+n+(),
	for (int j=0; j <no; j++)="" th="" {<=""></no;>
	float tot [] = new float [5];
	CIE-student Stud = New CIE student();
0.0	System. out. printle ("In enter name, use and sem);
	String n = ss-nex+();
	int u = ss - nux + in + (),
	etid sold ()
	Stud. get (v, s, n);
	SEE- extende so = new CIE: internals ();
	SEE- extennal se = new SEE- external (); SEE- credits or = new SEE- ordits ();
	Stud-Set ();
	for lint i=0; i<5; i++) {
	to+ [i] = (ci. inm[i] + (se. exm[i] /2));
	if (tot (i]) = 90) { g = 10; }
	else if [tot[i]>=80 de tot[i](qo) {q=q;}
	else if [hot (i] >= 70 le hot [i] (80) {q=8;}
	else if (bel [i] >= 60 by tot [i] <70) { 9 = 7; }
	euseif (totci]>= 50 pa totci] < 60) {g=6;}

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else if (tot (i] >=40 & tot (i] <50) {q=4;}
else if Ltot [i] < 40) { g = 0; }
 sum + = 9 + cr. red (i);
 sum 2+ = a. uedli];
  89 = (Hoat) sum ((Hoat) sum 2;
  System. out. pnnHn ("ShPA of student "+ (j+1));
System. out. pnnHn (sg); }
```