& Create a package CIE which has two classer Student and Internals. The class personal has members like usn, name, sem. The class Enternals has an array that store the internal marks scored in 5 courses of the current sem of the Student. Create onother package SEE which has the class External which Ps a derived class of Student. This class has an array that goves the SEF marker gurred in 5 course of the current sem of the student. Dackage CIE; Import java util x; Public class Student public int sem; Public String usn; public Storng name; public void occept () 2 Scanner Scan= new Scanner (System.in) System out pointly ("Enter uso, Name and Sem. In"); USn - scan, nextline (); name = Scan. nextline (), Sem = Scan next time ();

```
package CIE; internals
    public int im[] = new Int[5];
package SEE; . . .
import CIE. Student:
Public class External extends Student
public ant Sm[] = new ant [5];
impost javo util, *;
import SEE. x;
import CIE. x;
public closs final Mades
    public etatic void moin (string angs [])
       int fm[] = new int [5];
        Scanner Scanner (System. 9n);
        System. out. printer (" Enter nº ");
        int n = sc. nextIn+();
        SEE. Enternal 8+[] = new SEE. Externally
        CIE. Internals S[]=new CIE. Internals[n];
        for (int 1 =0; 12n; 1++)
           st [i] = new SEE. External ();
```

S [i] = new CIE. Internals (); System. out. println ("Enter details" + (i+,)); st (i). accept ()) for (int j:0; j25; j44) System. out. printin ("Enter I'm and Sm of 8ub" + (j+1)); S[i].im[j] = Sc. nextInt(); St[;]. Sm[;]. Sc. next Int (); tm (j] > s[i]. im.[j] + st[i]. sm[j]; System. out . println ("final marks of"+. St (i) name ); for (int K=0; K L5; K+4) System. Dut. println ("Coarse"+ (K+1)+"=" + fm(KJ);

Algerithm: Start Create a package CIE - create a closs Student in this package with members USN, name, sem - create another class Internals in the same - In student class create a get method to accept the values Croate another package SEE - create a class External extending Student In this does create an array of size 5 to store the Semester marks Inside the main function create an array of final marks of n: Students in 5 subjects create an array St of type External of size or 111th for Internal as 8 Accept the details of all n & Students accept the Internal and external marks for all a students Calculate the final marks for each subject and store in final marks arroy Display the total final marks of all the Students combindly ( Sum of marks of every & subject of all the students) Stop

Output enter no of students: 1 enter detalls 1 Enver sem usn 1BM22CS029 Enter internal and see marks of sub) 49 29 Sub 2 45 45 Jub3 49. 49. Sub 4 77 4.7 Sub 5 43 43. Sub6. 9.6 46 find marks of 10m 22C8029 Cocose 1 2 90 Course 2 2 98 Course 3/2 94 Course 4 286 Course 5 = 92

```
C:\Users\STUDENT\Desktop\1bm22cs029\ooj>javac -d . finalMarks.java
C:\Users\STUDENT\Desktop\1bm22cs029\ooj>java finalMarks
Akshara
1bm22cs029
enter no of students:
2
Enter details1
Enter sem, usn and name:
2
1bm22cs029
Enter internal and see marks of sub1
45
45
Enter internal and see marks of sub2
49
49
Enter internal and see marks of sub3
47
47
Enter internal and see marks of sub4
43
43
Enter internal and see marks of sub5
46
46
Final marks of 1bm22cs029
Course1=90
Course2=98
Course3=94
Course4=86
Course5=92
```

```
1bm22cs027
Enter internal and see marks of sub1
115
115
Enter internal and see marks of sub2
46
Ща
Enter internal and see marks of sub3
Enter internal and see marks of sub4
43
\mu_{\rm B}
Enter internal and see marks of sub5
49
Щ9
Final marks of 1bm22cs027
Course1=90
Course2=92
Course3=94
Course4=96
Course5=98
```

Enter details2

Enter sem, usn and name: