8Q)Create a package CIE which has two classes- Student and Internals- a subclass of Student. The class Student has members like usn, name, sem. The class internals has an array that stores the internal marks scored in five courses of the current semester of the student. Create another package SEE which has the class External which is a derived class of Internals. This class has an array that stores the SEE marks scored in five courses of the current semester of the student. Import the two packages in a file that declares the final marks of n students in all five courses.



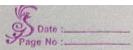
Create a package CIE which has two Student has numbers like ush, name, co members like ush, name, sem The class internals has an anay that stores the interned marks scored in five courses of the current semester of the student create another package SEE a derived class of steelent. This class has an array that stores the SEE marks scored in five courses of the current semester of the student. Import the tus packages in a file that declares the final marks of n student in all five courses. File: Student Tava package cie; import java-util. Sconner; public class Student & public String name = new String () public String ush = new string() public int sem; public student() { public roid set () { Scanner ss = new Scanner (system.in); System-out println (" Enter upn, name and sem of the student "):



```
ush = ss. next ();
    sem = ss. nextInt();
   public void get () {
   Systemout printin ("Usm: "tusn);
   System. out-printin ("Name: " trame);
   System. out println ("semaster: "+ sem);
file: Internal java
package cie;
import java util scanner;
public class Internals extends student {
   public int marks[] = new int[s];
  public Internals () {
   public void setciemarks () {
    Scanner sc = new Scanner (System. in);
    for (int i=0; i<5) i++)
      System out println ("Enter"+ (i+)+
      " subject's internal marks (out of so)")
      marks (i) = sc. mext Int ();
```



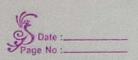
	File: Enternals. java
	parhage see;
	import cie *; import java util scanner;
	public class Externals entends cie. Internals ; public int seemarks[] = new int[s]; public Enternals() {
	public void set seemanks () { Scanner sc=new Scanner (System.in);
	System. out. println (" Forter "+ (i+1) + " subject & external marks (out of 50)");
	seemonks [i] = sc. nend [n+();
	3 3 C 3 Longy A solding
	File: Demo. Java
	import cie. *;
11 11 11	import java atil Scanner;
	class Demo { public static void main (string args[]) {
	Scanner s= new Scanner (System. in)



	Page No:
int n;	
int final marks [] =	new int (5);
	("Enter the number of
students: ");	1
n= s. nextInt();	N. 0222 301 03307
	w Enternals [n]
for (int s=0; iKn;	i+t) quantital
	nals ();
e[i]·set();	711
	's (); Magnet water
csi]. suseemant	
	teter subject 3
for (inti=0; isr	1/1+1) {
	Cotes copiest 2, is
	rindln ("The final marks; "))
	5 13 ++) }
	j]=e[i]·marks[j]+
	e[i], sumarks[i]
System. out. prir	ntln ("(ourse "+(j+1)+
to the tinal man	arks (j));
2	
	8 10 Hoz (1)
3	3 32 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
- 34 of Henry Honor	11 Taylor Till
enternal marches front of	7 X 3 P3 1 X 4 1 P 1 1 2 1 3 1 P 1 P 1 P 1 P 1 P 1 P 1 P 1 P 1 P



	Dutput:
	The state of the s
	Enter the number of students
	1 Manual Control of the Control of t
	Enter the cush, name and sem of the student
	18 MAICS 045
	Chipmayi 2
	Enter subject 1 internal marks (out of 50)
	Enter subjet 2 internal marks (octtof 50)
	aq (Detreenants 1779)
	Enter subject 3 internal marks (out of 50)
	Enter subject 3e internal marks (out of sa)
	Esta Chial to Side and mile & 1 (2)
м	Enter Subject 5 internal marks (but of so)
No Chair	Enter Subject 1 enternal marks (out of 50)
	Enter subject & enternal marks (out of so)
	Enter subject 3 enternal marks (out of so)
	Enter subject the enternal marks (out of so)
	Enter subject 5 enternal marks (oct of so)



	Usn: IBM21CSOUS	
	Mame: Chinmayi	
	Somester: 2	
The second secon	Course 1:	
	The final marks:	
	Courk 1: 95	
	Course 2: 96	
1	Course 3: 98	
	Course 4: 94	
	Course 5: 97	

Output:

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19045.2364]
(c) Microsoft Corporation. All rights reserved.
E:\Desktop\Oojlab\week8>javac cie/*.java
E:\Desktop\Oojlab\week8>javac cie/see/*.java
E:\Desktop\Oojlab\week8>javac Demo.java
E:\Desktop\Oojlab\week8>java Demo
Enter the number of students:
Enter usn, name and sem of the student
1BM21CS045
Chinmayi
Enter subject 1 internal marks(out of 50)
Enter subject 2 internal marks(out of 50)
Enter subject 3 internal marks(out of 50)
Enter subject 4 internal marks(out of 50)
Enter subject 5 internal marks(out of 50)
Enter subject 1 external marks(out of 50)
Enter subject 2 external marks(out of 50)
 C:\Windows\System32\cmd.exe
                                                                                                                 Enter subject 2 internal marks(out of 50)
49
Enter subject 3 internal marks(out of 50)
50
Enter subject 4 internal marks(out of 50)
Enter subject 5 internal marks(out of 50)
Enter subject 1 external marks(out of 50)
Enter subject 2 external marks(out of 50)
Enter subject 3 external marks(out of 50)
48
Enter subject 4 external marks(out of 50)
Enter subject 5 external marks(out of 50)
48
Usn: 1BM21CS045
Name: Chinmayi
Semester: 2
The final marks:
Course 1:95
Course 2:96
Course 3:98
Course 4:94
Course 5:97
E:\Desktop\Oojlab\week8>
```