LAB 6 WEEK 9 MOHAMMED ABDUL HAMID

Create a package CIE which has two classes- Student and Internals. The class Personal 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 Student. 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.

```
package CIE;
import java.util.*;
public class personal
       public String name;
       public int sem;
       public String usn;
       public void read()
               Scanner sc = new Scanner(System.in);
               System.out.println("Enter the name");
               name = sc.next();
               System.out.println("Enter the semester");
               sem = sc.nextInt();
               System.out.println("Enter the USN");
               usn = sc.next();
       public void display()
               System.out.println("Student details: ");
               System.out.println("Name: "+name+"\nUSN: "+usn+"\nSem: "+sem);
       }
}
package CIE;
import java.util.*;
public class internals extends personal
       public double cie∏;
       public void accept()
               cie= new double[5];
               Scanner sc = new Scanner(System.in);
               for(int i=0; i<5; i++)
               {
                      System.out.println("CIE mark for course "+(i+1)+": ");
                      cie[i]= sc.nextDouble();
               }
```

```
}
package SEE;
import java.util.*;
import CIE.*;
public class externals extends personal
       public double see[];
        public void get()
               see= new double[5];
               Scanner sc = new Scanner(System.in);
               for(int i=0; i<5; i++)
                       System.out.println("SEE mark for course "+(i+1)+": ");
                       see[i]= sc.nextDouble();
               }
       }
}
import CIE.*;
import SEE.*;
import java.util.*;
class Main
        public static void main(String args[])
               Scanner sx = new Scanner(System.in);
               System.out.println("Enter the number of students");
               int n= sx.nextInt();
               CIE.internals in[]= new CIE.internals[n];
               SEE.externals en[]= new SEE.externals[n];
               int i,j;
               for(i=0;i<n;i++)
                       System.out.println("Student "+(i+1));
                       in[i] = new CIE.internals();
                       en[i] = new SEE.externals();
                       in[i].read();
                       System.out.println("CIE MARKS:");
                       in[i].accept();
                       System.out.println("SEE MARKS:");
                       en[i].get();
                       System.out.println();
                       in[i].display();
                       for(j=0;j<5;j++)
                       System.out.println("Total Marks for course "+(j+1)+": "+(in[i].cie[j] +
(en[i].see[j]/2)));
```

}

```
Last login: Fri Nov 20 15:40:02 on ttys000
        The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please yisit https://support.apple.com/kb/HT208050.
iabduls-MacBook-Pro:- abdulhamidS cd Documents/
iabduls-MacBook-Pro:Documents abdulhamids cd PACKAGES
iabduls-MacBook-Pro:PACKAGES abdulhamidS java Main
Enter the number of students.
labduls-MacBook-Pro:PACKAC
Enter the number of stude
3
Student 1
Enter the name
hamid
Enter the semester
3
There the Summer
CIE MARKS:
CIE mark for course 1:
40
CIE mark for course 3:
40
CIE mark for course 4:
40
CIE mark for course 5:
40
SEE MARKS:
SEE mark for course 6:
89
SEE mark for course 1:
89
SEE mark for course 1:
89
SEE mark for course 3:
89
SEE mark for course 5:
Student details:
Name: hamid
USN: 1bm2020
Sem: 3
Total Marks for course 1: 84.5
Total Marks for course 3: 84.5
Total Marks for course 3: 84.5
Total Marks for course 5: 84.5
Total Marks for course 5: 84.5
Entail Marks for course 5: 84.5
Enter the name
abd
Enter the semester
3
Enter the semester
3
Enter the ISN
     3
Enter the USN
1qq33
CIE MARKS:
CIE mark for course 1 : 34
CIE mark for course 2 : 40
CIE mark for course 3 : 33
  CIE mark for course 5 : 33
SEE MARKS:
SEE mark for course 1 : 89
SEE mark for course 2 : 89
SEE mark for course 3 : 89
SEE mark for course 4 : 59
SEE mark for course 5 : 89
Stemark for course 5 : 89

Student details:
Name: abd
USN: log33
Sem: 3
Total Marks for course 1: 78.5
Total Marks for course 3: 77.5
Total Marks for course 4: 77.5
Total Marks for course 5: 77.5
Total Marks for course 5: 77.5
Enter the mame
Language Course 5: 77.5
Enter the name
Language Course 6: 77.5
Enter the uSN
Lbm2002
CIE MarkS:
CIE mark for course 1: 3
GIE mark for course 2: CIE mark for course 3: 3
CIE mark for course 3: 3
CIE mark for course 4:
CIE mark for course 3 : 3 CIE mark for course 4 : 40 CIE mark for course 5 : 34 ARKS: SEE mark for course 1 : 90 SEE mark for course 2 : 90 SEE mark for course 3 : 90 SEE mark for course 4 : 90 SEE mark for course 5 : 90
  Student details:
Name: hamid2
USN: ibm/2062
USN: ibm/2062
Total Marks for course 1: 79.0
Total Marks for course 2: 79.0
Total Marks for course 3: 46.0
Total Marks for course 4: 85.0
Total Marks for course 5: 79.0
abduls-MacBook-Pro:FACKAGES abdulhamid$
```

}

}