#### **PACKAGES**

```
import CIE.Student;
import CIE.Internals;
import SEE.External;
import java.util.Scanner;
public class Main {
  public static void main (String args []){
     int n,sem;
     String name, usn;
     System.out.println("Enter number of students:");
     Scanner sc=new Scanner(System.in);
     n=sc.nextInt();
     Student stds[]=new Student[n];
     Internals i[]=new Internals[n];
     External e[]=new External[n];
     for(int j=0;j<n;j++){
       System.out.println("Enter Details of Student "+(j+1)+":");
       sc.nextLine();
       System.out.println("Name:");
       name=sc.nextLine();
       System.out.println("USN:");
       usn=sc.nextLine();
       System.out.println("Enter Semester");
       sem=sc.nextInt();
       stds[j]=new Student(usn,name,sem);
       i[j]=new Internals();
       System.out.println("Enter internal marks");
       i[j].setImarks();
       e[j]=new External();
       System.out.println("Enter external marks");
       e[j].setEmarks();
     for(int j=0;j<n;j++){
       System.out.println("Student "+(j+1)+" details:");
       stds[j].displayDetails();
       System.out.println("Internal Marks:");
       i[j].displaylmarks();
       System.out.println("External Marks:");
       e[j].displayEmarks();
       System.out.println("Total Marks:");
```

# **PACKAGES**

```
for(int k=0; k<5; k++){
         System.out.println("Subject"+""+(k+1)+":"+(i[j].imarks[k]+e[j].emarks[k]));\\
       }
    }
  }
}
OUTPUT:
Enter number of students:
Enter Details of Student 1:
Name:
seeta
USN:
1A0123
Enter Semester
3
Enter internal marks
23 36 38 40 34
Enter external marks
85 45 96 78 96
Enter Details of Student 2:
Name:
reeta
USN:
1A02123
Enter Semester
Enter internal marks
45 25 36 36 40
Enter external marks
45 26 36 38 40
Student 1 details:
USN:1A0123
Name:seeta
Sem:3
Internal Marks:
Subject 1: 23
Subject 2: 36
```

# JAVA

# **PACKAGES**

Subject 3: 38 Subject 4: 40 Subject 5: 34

# External Marks:

Subject 1: 85 Subject 2: 45 Subject 3: 96 Subject 4: 78 Subject 5: 96

#### Total Marks:

Subject 1 : 108 Subject 2 : 81 Subject 3 : 134 Subject 4 : 118 Subject 5 : 130

# Student 2 details:

USN:1A02123 Name:reeta Sem:3

#### Internal Marks:

Subject 1: 45 Subject 2: 25 Subject 3: 36 Subject 4: 36 Subject 5: 40

# External Marks:

Subject 1: 45 Subject 2: 26 Subject 3: 36 Subject 4: 38 Subject 5: 40

# Total Marks:

Subject 1:90 Subject 2:51 Subject 3:72 Subject 4:74 Subject 5:80

#### **PACKAGES**

```
1) Coneate on folder CIE & some the programs student jang
 & Internals. Jana muth in it.
2) breate a folder SEE & save the program External sava
  within ad
3) save the main program outside these two folders.
4) compile main james of Execute the main class
   CIE/Student
   Porkage (IE );
    public class Student {
   public Stowng usn;
    public stowne rame;
   protected in sem;
   public Student (Stowny Usn, Stowng name, and Sem) {
   this usn = usn;
   this . Strung name = name;
    this. sem = sem; }
   CJE/Internals
   package CIE;
   public class Intervals extends student {
   public int[] internalments = new int[5];
   public Internals (Stowng Usn, Stowng name, and sem,
   int[] unternalments) {
   super (usn, name, sem);
   this unternalmarks = unternal marks; }
X SEE / External
   package SEE;
   impout CIE. Student;
   public class fortends External sociends Student (
   public until see marks;
```

```
public External (Storing Usn, Storing name, unt sem,
eint [] see marks) {
  Super (usn, name, sem);
  this see marks = see marks; }
Main SEE/ External
impound CIE. Student;
public class External extends Student &
 public ant [] seemarks;
 public External (stowing usn, Stowing name, int sem,
eind [] seemarks) {
Super (USn, name, sem);
this see marks = see marks; }
main
import CIE. Internals;
impourt SEE. Externals;
public class main {
PSVM (Stoung [] angs) {
ant [] anternal Marks 1 = {80, 15, 90, 85, 88 };
Internals student : new Internals ("IABC 123", "John Que",
3, internal marks 1);
int[] seemarks1 = {70, 85, 78, 99, 88};
External Students = new External ("2xyz 456", "Jane Smith",
 3, See Marks 1);
 ant [] finalmorks | - new unt [5];
 for ( und i=0; i <5; i++) {
    final marks [i] - Student 1. unternal marks [i] +
  studente. seemanks [i]; }
```

System. aut. println ("Final marks forr" + student. rame + "(USN: "+ Student. usn +")"); four(unt i=0; i(45; i++) { 3.0.P ("course" + (i+1) +":"+ final marks [[i]); } autput. Final Marks for AU (USN: 1AB (123) COUNSE 1: 150 COLONE 2: 160 Courses: 168 (ourse 4: 177 Cowse 5: 176.