

Lab 9

Qp 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 ~~the~~ 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. The 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 a student in all five courses.

~~Program~~

External.java

```
package SEE;
import CIE.*;

public class External extends Internals {
    public int[] marks;
    public void set (int [] a) {
        for (int i=0; i<5; i++) {
            marks[i] = a[i];
        }
    }
    public void get () {
        for (int i=0; i<5; i++) {
            System.out.println ("External Marks ");
        }
    }
}
```

```
System.out.println ("Subject " + i + ":" + marks[i]);  
}  
}  
}
```

Internal.java

```
package CIE;
```

```
public class Internal extends Student {
```

```
    public int[] marks = new int[5];
```

```
    public void setint (int []a) {
```

```
        for (int i=0; i<5; i++) {
```

```
            marks[i] = a[i];
```

```
        }
```

```
    }
```

```
    public void getint () {
```

```
        System.out.println ("Internal marks");
```

```
        for (int i=0; i<5; i++) {
```

```
            System.out.println ("Subject " + i + ":" + marks[i]);
```

```
        }
```

```
    }
```

```
}
```

Student.java

package CIE;

public class Student {

public int USN;

public String name;

public int sem;

public void setdet (int u, String s, int e) {

USN = u;

name = s;

sem = e;

}

public void getdet () {

System.out.println("Student details");

System.out.println("USN:" + USN + "\n NAME:" + name + "\n SEMESTER:" +
sem);

}

}

Output

Enter number of students.

1

Enter student details.

1 a 2

Enter internal marks.

12 12 12 12 12

Enter internal marks.

12 12 12 12 12

Student Details

USN: 1

Name: a

SEM: 2

Internal Marks

Subject 1: 12

Subject 2: 12

Subject 3: 12

Subject 4: 12

Subject 5: 12

External Marks

Subject 1: 12

Subject 2: 12

Subject 3: 12

Subject 4: 12

Subject 5: 12

Final Marks.

Subject 1: 18

Subject 2: 18

Subject 3: 18

Subject 4: 18

Subject 5: 18

Enter number of students

1

Enter student details

1 aqw 2

Enter internal marks

12 12 12 12 12

Enter external marks

12 12 12 12 12

Student details

USN:1

NAME:aqw

SEMESTER:2

Internal marks

Subject 0: 12

Subject 1: 12

Subject 2: 12

Subject 3: 12

Subject 4: 12

External marks

Subject 0: 12

External marks

Subject 1: 12

External marks

Subject 2: 12

External marks

Subject 3: 12

External marks

Subject 4: 12

Final marks

Subject 0: 18

Subject 1: 18

Subject 2: 18

Subject 3: 18

Subject 4: 18