

## LAB: 06

Solve this program and write the procedure you used to execute this program.

→ 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 5 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.

// In cie package (Student class)

```
package cie;
```

```
public class Student {  
    public int usn;  
    public String name;  
    public int sem;
```

```
    public Student(int usn, String name, int sem) {  
        this.usn = usn;  
        this.name = name;  
        this.sem = sem;  
    }  
}
```

```
}
```



// internals class

package cie;

```
public class internals extends Student {  
    public int[] cieMarks = new int [5];  
    public internals (int usn, String name,  
        int sem, int[] cieMarks)  
    {  
        Super ( usn, name, sem);  
        this.cieMarks = cieMarks;  
    }  
}
```

// SEE package (external class)

package See;  
import cie;

```
public class externals extends Students {
```

```
    int[] seeMarks = new int [5]
```

```
    public externals (int usn, String name, int  
        sem, int[] seeMarks) {
```

```
        Super ( usn, name, sem);
```

```
        this.seeMarks = seeMarks;
```

```
    }
```

```
}
```



// Default package.

```
import see.*;  
import cie.*;  
import  
class Main {  
    public static void main (String[] args) {
```

```
        int usn = 123;  
        String name = "Sham";  
        int sem = 3;  
        int cie = { 49, 50, 46, 47, 48 };  
        int see = { 91, 100, 89, 91, 90 };
```

```
        internals in = new internals (usn, name, sem, cie);  
        externals ex = new externals (usn, name, sem, cie);
```

```
        System.out.println ("Name : " + in.name);  
        System.out.println ("USN : " + ex.usn);  
        System.out.println ("Sem : " + in.sem);
```

```
        int total = 0;  
        for (int i = 0; i < 5; i++) {  
            total = in.cieMarks[i] + ex.semMarks[i];  
            System.out.print ("Final marks : " + total + " ");  
        }
```

```
        System.out.println ();
```

```
    }  
}
```