

Lab - 6

Create a package CIE which has two classes - Student and Internal. The class Personal has members like usn, name, sem. The class Internal has an array that stores the internal marks stored 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. Import the two packages in a file that declares the final marks of n students in all five courses.

```
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();
        }
    }
}
```



```
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 marks 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();
        }
    }
}
```