

```
package CIE ;
```

```
import java.util.Scanner;
```

```
public class student
```

```
{  
    public String usn;
```

```
    public String name;
```

```
    public int sem;
```

```
    Scanner ss = new Scanner(System.in);
```

```
    public Student()  
    {
```

```
        usn = " ";
```

```
        name = " ";
```

```
        sem = 0;
```

```
    }
```

```
    public void accept()  
    {
```

```
        System.out.println("\n <--- ENTER PERSONAL  
                                DETAILS ---> \n");
```

```
        System.out.println("Enter the student USN");  
        usn = ss.next();
```

```
        System.out.println("Enter the student  
                                NAME:");
```

```
        name = ss.next();
```

```
        System.out.println("Enter the student  
                                semester \n");
```

```
        sem = ss.nextInt();
```

```
    }  
}
```



```
package CIE;
```

```
import java.util.Scanner;
```

```
public class Internals extends Student  
{
```

```
    public int n = 5;
```

```
    public int cie[] = new int[n];
```

```
    public int f;
```

```
    Scanner ss = new Scanner(System.in);
```

```
    public void acceptcie()  
    {
```

```
        System.out.println("\n <--- CIE MARK  
        DETAILS---->\n");
```

```
        System.out.println("enter the marks in  
        each of the "+ n + " subjects :");
```

```
        for (i=0; i<n; i++)
```

```
        {  
            System.out.println("enter the CIE mark  
            in subject " + (i+1) + " :");  
            cie[i] = ss.nextInt();  
        }
```

```
    }  
}
```



```
package SEE;
```

```
import java.util.Scanner;  
import CIE.Student;
```

```
public class Entenarks extends CIE.Student  
{
```

```
    public int n = 5;
```

```
    public int see[] = new int[n];
```

```
    public int i;
```

```
    Scanner ss = new Scanner(System.in);
```

```
    public void acceptsee()  
{
```

```
        System.out.println("\n<--- SEE Marks  
                                Detail ---> \n");
```

```
        System.out.println("Enter the marks  
                                in each of the " + n +  
                                " subjects :");
```

```
        for (i = 0; i < n; i++)  
        {
```

```
            System.out.print("Enter the SEE mark  
                                in subject " + (i + 1) + " :");
```

```
            see[i] = ss.nextInt();
```

```
        }
```

```
    }
```

```
}
```



```

import CIE.X;
import SEE.X;
import java.util.Scanner;

```

```

class Totalmarks
{

```

```

    public static void main (String[] args)
    {

```

```

        int n;

```

```

        int tot[5][5];

```

```

        Scanner ss = new Scanner(System.in);
        System.out.println("Enter the no of students");
        n = ss.nextInt();

```

```

        tot = new int[n][5];

```

```

        CIE.Externals ci[] = new CIE.Externals[n];

```

```

        SEE.Externals se[] = new SEE.Externals[n];

```

```

        for (int i=0; i<n; i++)
        {

```

```

            System.out.println("\n<--- Detail of  

                                Student"+(i+1)+"----->");

```

```

            ci[i] = new CIE.Externals();

```

```

            se[i] = new SEE.Externals();

```

```

            ci[i].accept();

```

```

            ci[i].acceptCie();

```

```

            se[i].acceptSee();

```

```

            for (int j=0; j<5; j++)
            {

```

```

                tot[i][j] = ci[i].cie[j] + (se[i].see[j] / 2);
            }
        }
    }
}

```



```
System.out.println("----->");  
for (int i=0; i<n; i++)  
{  
    System.out.println("\n STUDENT" + (i+1) +  
        " FINAL MARKS OUT OF 100\n");  
    for (int j=0; j<5; j++)  
    {  
        System.out.println("Marks in Course" + (j+1)  
            + " : " + tot[i][j]);  
    }  
    System.out.println("----->");  
}
```