

```
package CIE;
import java.util.Scanner;
public class Internals extends Student{
protected int marks[]=new int[5];
public void inputCIEmarks()
{
Scanner sc=new Scanner(System.in);
System.out.println("Enter CIE marks:");
for(int i=0;i<5;i++)
{
System.out.println("Enter sub"+(i+1)+"marks:");
marks[i]=sc.nextInt();
}

}
}
```

```
package CIE;
import java.util.Scanner;
public class Student{
protected String usn=new String();
protected String name=new String();
protected int sem;
public void inputStudentDetails()
{
Scanner sc=new Scanner(System.in);
System.out.println("Enter usn,name and present semester :");
usn=sc.next();
name=sc.next();
sem=sc.nextInt();
}
public void displayStudentDetails()
{
System.out.println("Student details:
\nUsn:"+usn+"\nName:"+name+"\nPresent Sem:"+sem);
}
}
```

```
package SEE;
import CIE.*;
import java.util.Scanner;

public class Externals extends Internals{
protected int marks[];
protected int finalMarks[];
Scanner sc=new Scanner(System.in);

public Externals() {
marks=new int[5];
finalMarks=new int[5];
}

public void inputSEEmarks() {

System.out.println("Enter SEE marks(out of 50):");
for(int i=0;i<5;i++)
{
System.out.println("Enter sub"+(i+1)+"marks:");
marks[i]=sc.nextInt();
}
}

public void calcFinalMarks()
{
for(int i=0;i<5;i++)
{
finalMarks[i]=super.marks[i]+marks[i];
}
}

public void displayFinalMarks()
{
```

```
System.out.println("Enter SEE marks(out of 50):");
for(int i=0;i<5;i++)
{
    System.out.println("Enter sub"+(i+1)+"marks:");
    marks[i]=sc.nextInt();
}

public void calcFinalMarks()
{
    for(int i=0;i<5;i++)
    {
        finalMarks[i]=super.marks[i]+marks[i];
    }
}

public void displayFinalMarks()
{
    System.out.println("Final Marks:");
    for(int i=0;i<5;i++)
    {
        System.out.print("Sub"+(i+1)+": "+finalMarks[i]+" ");
    }

    System.out.println();
}

public void displayStudentDetails()
{
    System.out.println("Student details:
    \nUsn:"+usn+"\nName:"+name+"\nPresent Sem:"+sem);
    displayFinalMarks();
}
}
```

Enter number of Students:

2

Enter Student1 details:

Enter usn,name and present semester :

1

sai

3

Enter CIE marks:

Enter sub1marks:

45

Enter sub2marks:

50

Enter sub3marks:

45

Enter sub4marks:

43

Enter sub5marks:

50

Enter SEE marks(out of 50):

Enter sub1marks:

43

Enter sub2marks:

46

Enter sub3marks:

42

Enter sub4marks:

32

Enter sub5marks:

12

Student details:

Usn:1

Name:sai

Present Sem:3

Final Marks:

Sub1:88 Sub2:96 Sub3:87 Sub4:75 Sub5:62

Enter Student2 details:

Enter usn,name and present semester :

2

shree

3

Enter CIE marks:

Enter sub1marks:

45

Enter sub2marks:

50

Enter sub3marks:

43

Enter sub4marks:

23

Enter sub5marks:

34

Enter SEE marks(out of 50):

Enter sub1marks:

45

Enter sub2marks:

45

Enter sub3marks:

45

Enter sub4marks:

50

Enter sub5marks:

23

Student details:

Usn:2

Name:shree

Present Sem:3

Final Marks:

Sub1:90 Sub2:95 Sub3:88 Sub4:73 Sub5:57