

PROG-6

[Student.java]

```
package CIE;

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

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

[Internals.java]

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

public class Internals extends Student {
    Scanner in = new Scanner(System.in);
    public int[] cie = new int[5];

    public void get() {
        for (int i = 0; i < 5; i++) {
            System.out.print("Enter CIE marks in Subject " + (i+1) + " (out of 50) of the current semester: ");
            cie[i] = in.nextInt();
        }
    }
}
```

[Externals.java]

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

public class Externals extends CIE.Student {
    public Externals(String usn, String name, int sem) {
        super(usn, name, sem);
    }
}
```



```
Scanner in = new Scanner(System.in);
public int[] see = new int[5];
public void get()
{
    System.out.print("\n");
    for (int i = 0; i < 5; i++) {
        System.out.print("Enter the SEE marks in subject " + (i+1) + "
        (out of 100) of this semester:");
        see[i] = in.nextInt();
    }
}
```

```
[finalmarks.java]
import CIE.*;
import SEE.*;
import java.util.*;
class finalmarks {
    public static void main (String args[])
    {
        Scanner in = new Scanner(System.in);
        System.out.println("Enter the number of students:");
        int n = in.nextInt();
        SEE.Externals ob1[] = new SEE.Externals[5];
        CIE.Externals ob2[] = new CIE.Externals[5];
        for (int i = 0; i < n; i++)
        {
            System.out.println("Enter the details of student number " + (i+1));
            System.out.print("USN:");
            String usn = in.next();
            System.out.print("NAME:");
            String name = in.next();
            System.out.print("SEMESTER:");
            int sem = in.nextInt();
            ob1[i] = new CIE.Externals();
            ob2[i] = get();
        }
    }
}
```

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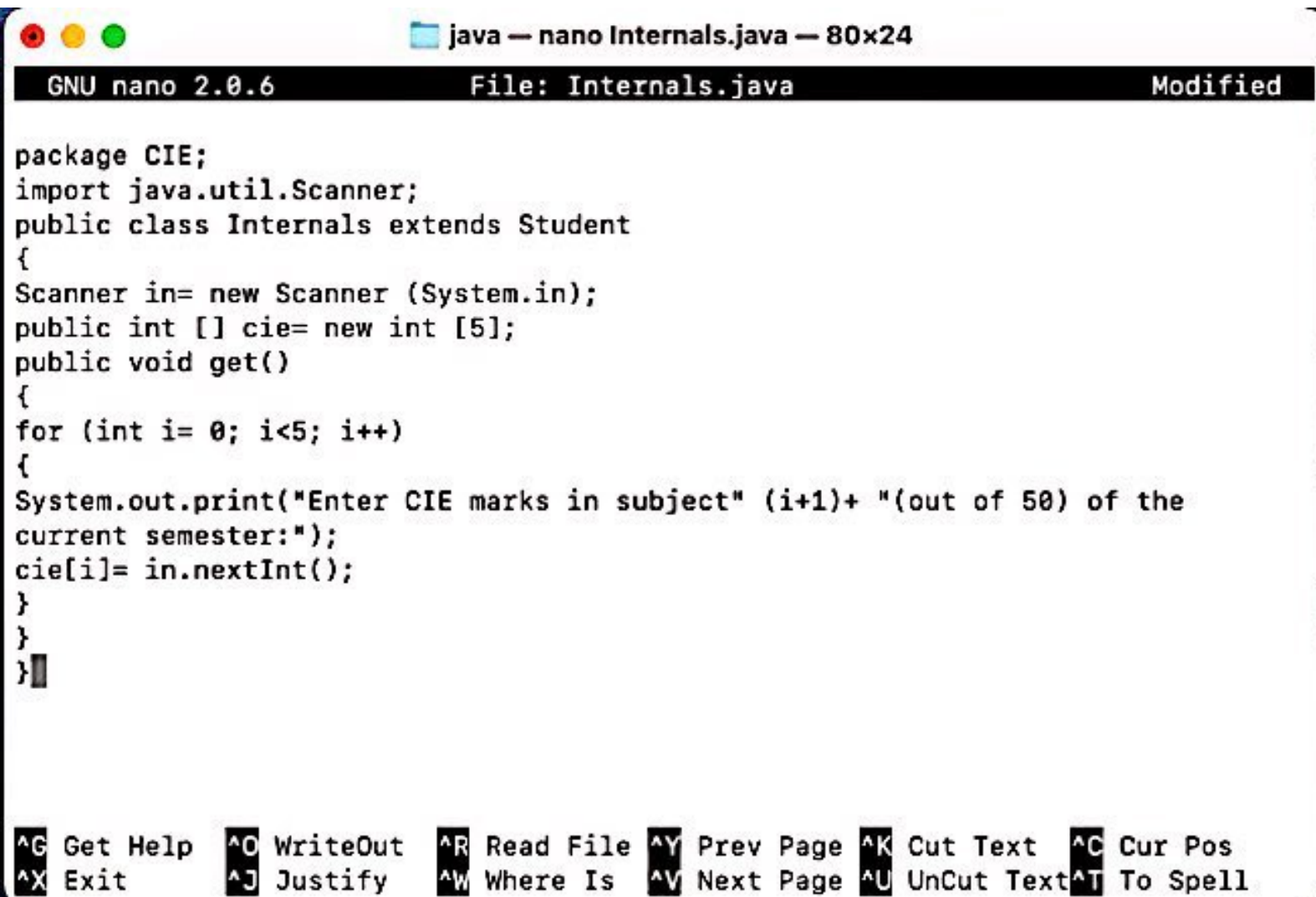
Page \_\_\_\_\_

```
obj[i] = new SEE.Externals (usr, name, sem);  
obj[i].get();  
}  
for (int i=0; i<n; i++) {  
    System.out.println (" STUDENT NUMBER " + (i+1));  
    for (int j=0; j<5; j++)  
    {  
        System.out.println ("SUBJECT " + (j+1) + "TOTAL MARKS:" + (obj[i].  
            .cse[j] + obj[i].see[j]/2));  
    }  
}  
}  
}
```

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

<b>^G</b> Get Help	<b>^O</b> WriteOut	<b>^R</b> Read File	<b>^Y</b> Prev Page	<b>^K</b> Cut Text	<b>^C</b> Cur Pos
<b>^X</b> Exit	<b>^J</b> Justify	<b>^W</b> Where Is	<b>^V</b> Next Page	<b>^U</b> UnCut Text	<b>^T</b> To Spell

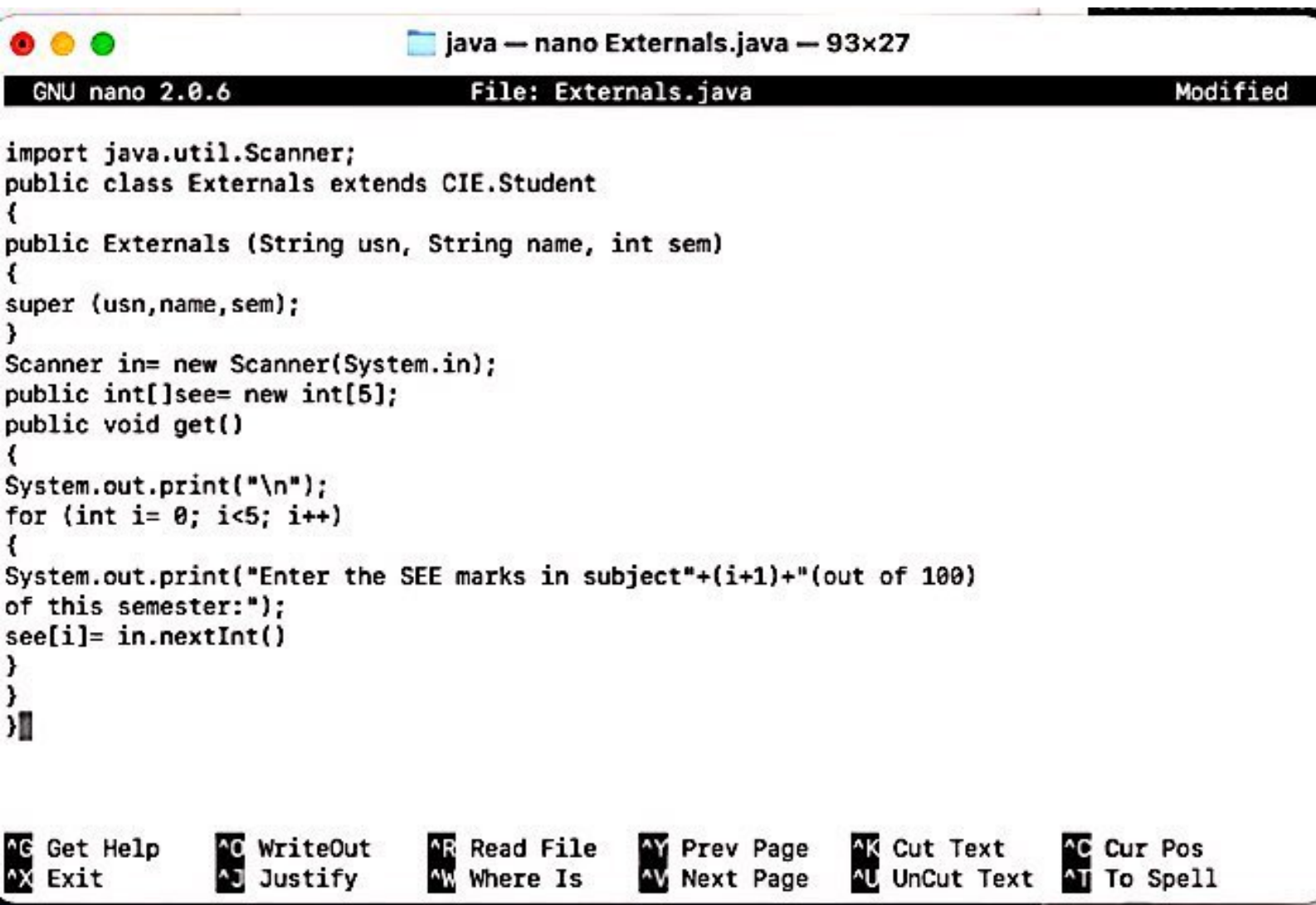




The image shows a terminal window with a title bar that reads "java — nano Internals.java — 80x24". The window contains the GNU nano 2.0.6 editor interface. The status bar at the top shows "GNU nano 2.0.6", "File: Internals.java", and "Modified". The main area displays a Java program that defines a class "Internals" extending "Student". It imports "java.util.Scanner", creates a "Scanner" object "in", and an integer array "cie" of size 5. A "get()" method is defined, which uses a "for" loop to prompt the user for CIE marks in each subject (1 to 5) and stores the input in the "cie" array. The bottom status bar lists various keyboard shortcuts for nano, such as ^G for Get Help, ^O for WriteOut, ^R for Read File, ^Y for Prev Page, ^K for Cut Text, ^C for Cur Pos, ^X for Exit, ^J for Justify, ^W for Where Is, ^V for Next Page, ^U for UnCut Text, and ^T for To Spell.

```
package CIE;
import java.util.Scanner;
public class Internals extends Student
{
Scanner in= new Scanner (System.in);
public int [] cie= new int [5];
public void get()
{
for (int i= 0; i<5; i++)
{
System.out.print("Enter CIE marks in subject" (i+1)+ "(out of 50) of the
current semester:");
cie[i]= in.nextInt();
}
}
}
```

^G Get Help ^O WriteOut ^R Read File ^Y Prev Page ^K Cut Text ^C Cur Pos  
^X Exit ^J Justify ^W Where Is ^V Next Page ^U UnCut Text ^T To Spell



The image shows a terminal window with a title bar that reads "java — nano Externals.java — 93x27". The window contains a Java program being edited in the nano text editor. The program defines a class "Externals" that extends "CIE.Student". It includes a constructor, a Scanner object, an array, and a "get()" method that prints a prompt and reads five integers. The bottom of the window features a status bar with various keyboard shortcuts for nano editor functions.

```
GNU nano 2.0.6                               File: Externals.java                               Modified

import java.util.Scanner;
public class Externals extends CIE.Student
{
public Externals (String usn, String name, int sem)
{
super (usn,name,sem);
}
Scanner in= new Scanner(System.in);
public int[]see= new int[5];
public void get()
{
System.out.print("\n");
for (int i= 0; i<5; i++)
{
System.out.print("Enter the SEE marks in subject"+(i+1)+"(out of 100)
of this semester:");
see[i]= in.nextInt()
}
}
}
}

^G Get Help      ^O WriteOut      ^R Read File      ^Y Prev Page      ^K Cut Text      ^C Cur Pos
^X Exit          ^J Justify       ^W Where Is       ^V Next Page      ^U UnCut Text    ^T To Spell
```

```

import CIE.*;
import SEE.*;
import java.util.*;
class finalmarks{
public static void main (String agrs[])
{
Scanner in= new Scanner (System.in);
System.out.println("Enter the number of students:");
int n= in.nextInt();
SEE.Externals ob1[]= new SEE.Externals[5];
CIE.Externals ob[]= new CIE.Internals[5];
for (int i=0;i<n;i++){
{
System.out.println("Enter the details of student number" + i+1));
System.out.print("USN:");
String usn= in.next();
System.out.print("NAME:");
String name= in.next();
System.out.print("SEMESTER:");
int sem= in.nextInt();
ob[i]= new CIE.Internals();
ob[i].get();
ob1[i]= new SEE.Externals (usn, name, sem);
ob1[i].get();
}
}
for (int i= 0; i<n; i++)
{
System.out.println("STUDENT NUMBER"+(i+1));
for (int j=0; j<5; j++)
{
System.out.println("SUBJECT" + (j+1)+"TOTAL MARKS:" + (ob[i].cie[j]+ob1[i].see[j]/2));
}
}
}
}
}

```