

Compilation and Execution of a Java Program in a Package



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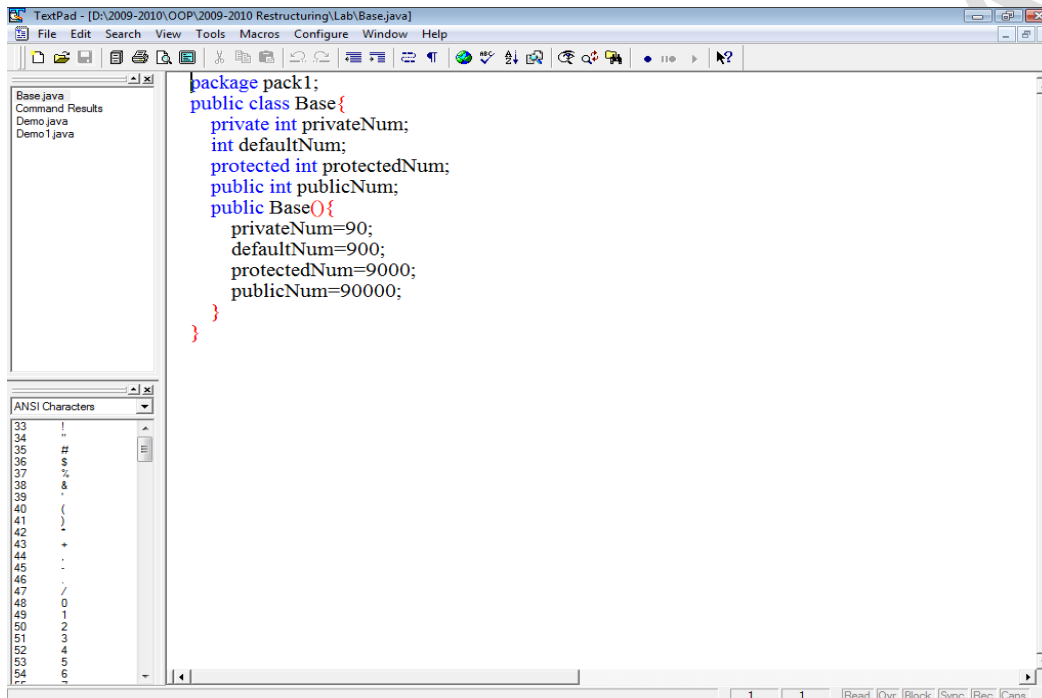
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Compilation and Execution of a Java Program In a Package

Objective: Understand how to compile and execute a Java program in a Package

Problem Description: Compile and execute a Java program in a Package and create a Java program to access the data members across the package

Step 1: Type the following program in a Text Pad as shown below

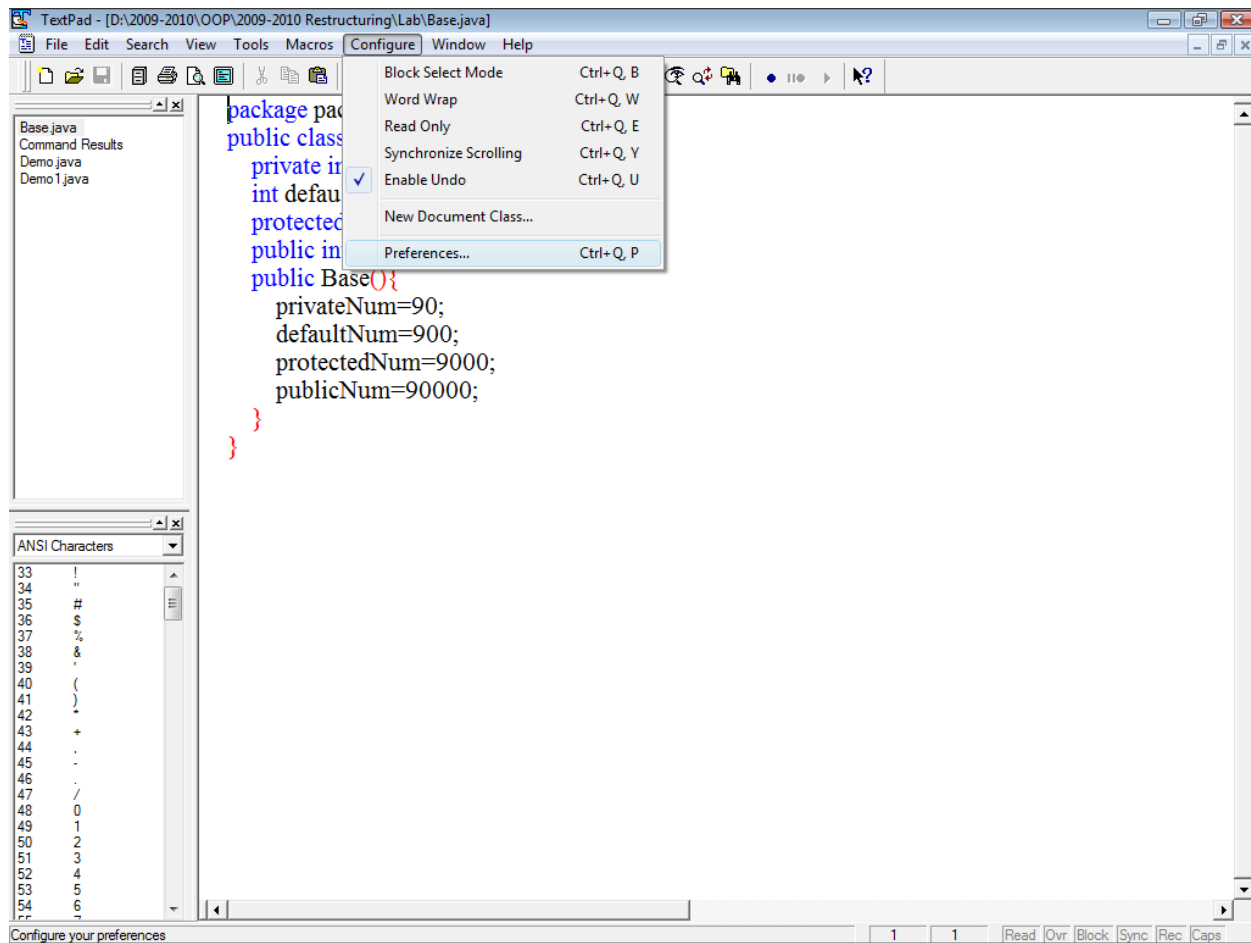


```
package pack1;
public class Base{
    private int privateNum;
    int defaultNum;
    protected int protectedNum;
    public int publicNum;
    public Base(){
        privateNum=90;
        defaultNum=900;
        protectedNum=9000;
        publicNum=90000;
    }
}
```

Step 2: Save the program as Base.java

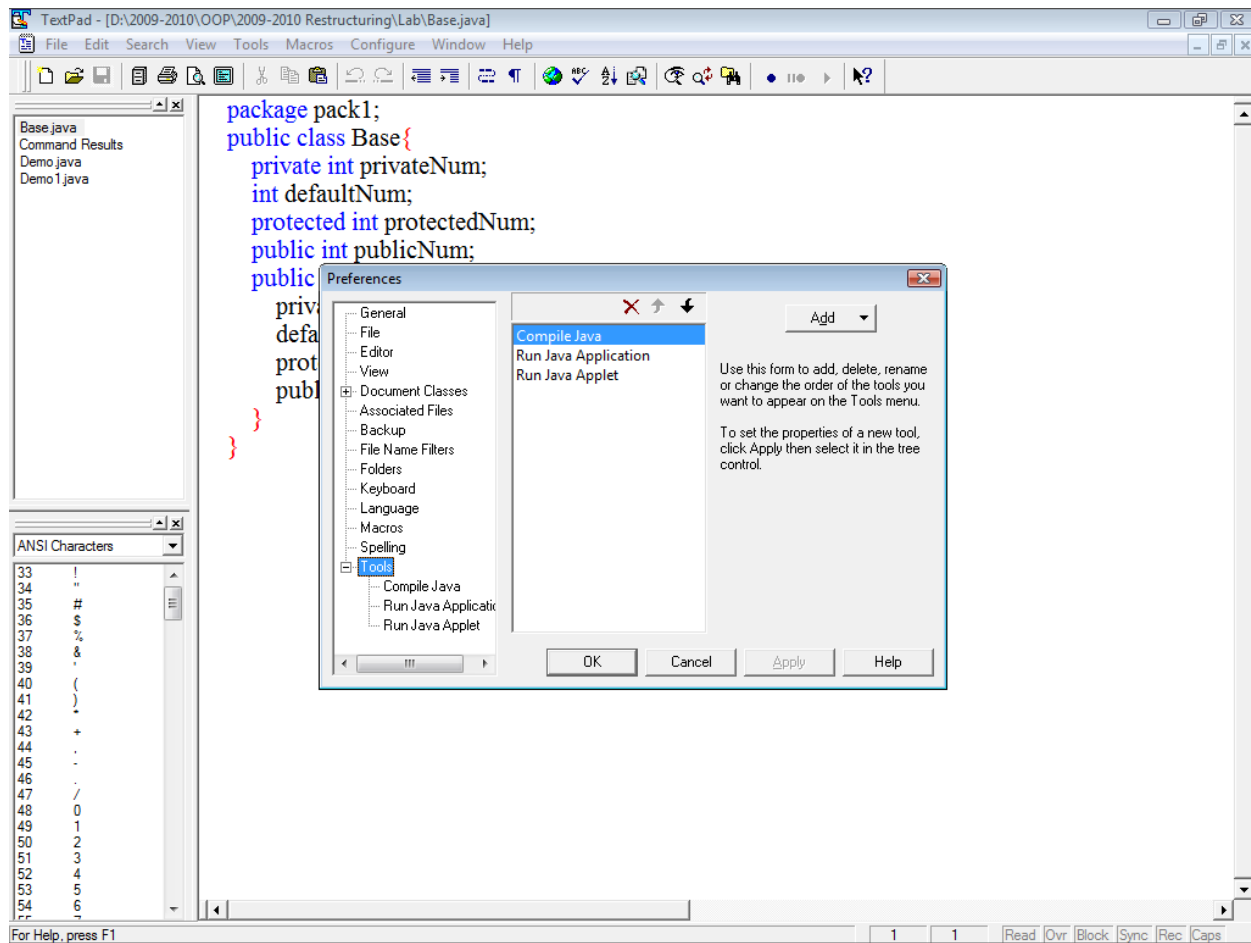
Step 3: Go to **Configure** menu- Select **Preferences...**option

The below window is displayed:



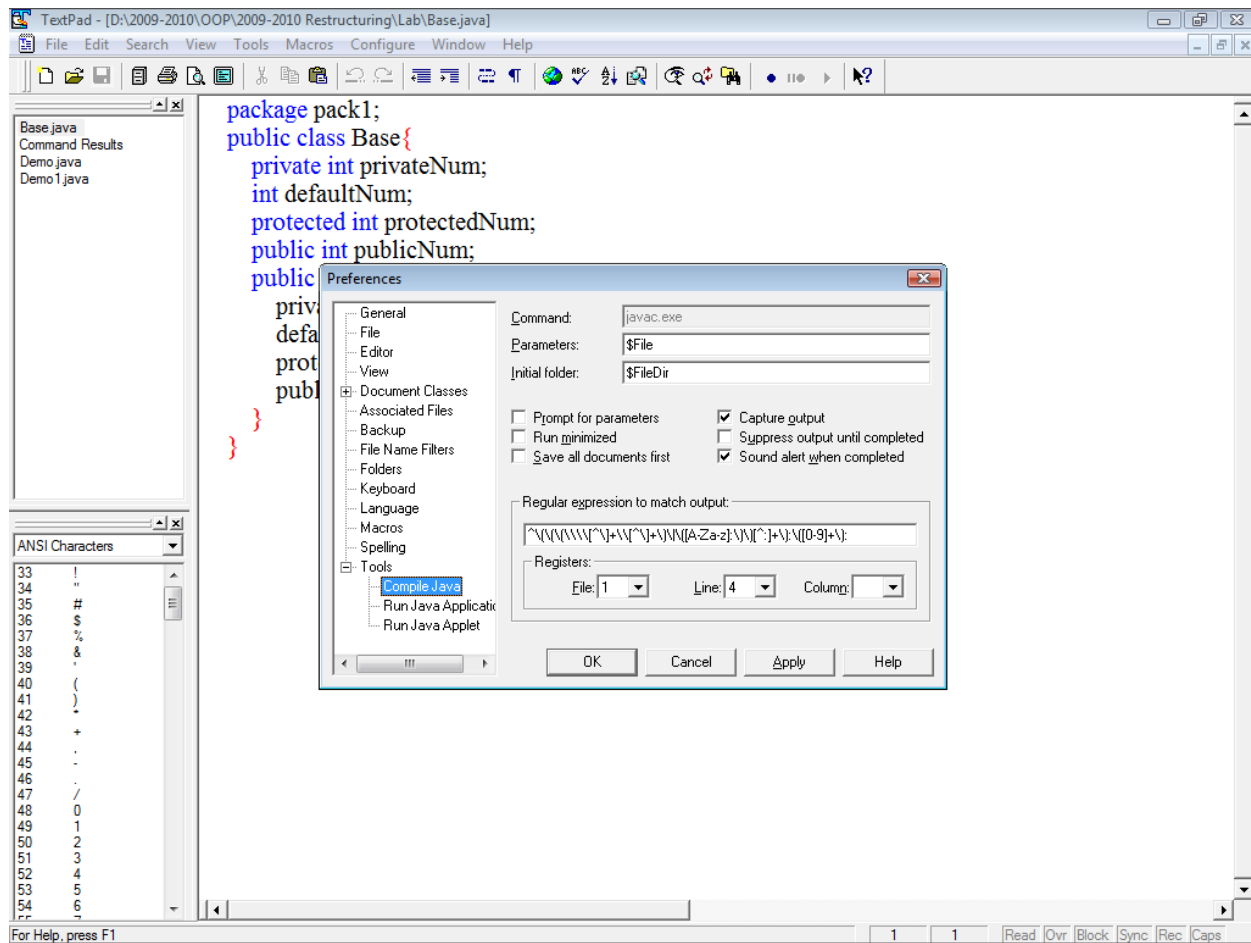
Step 4: Click on Preferences...

The below window is displayed:



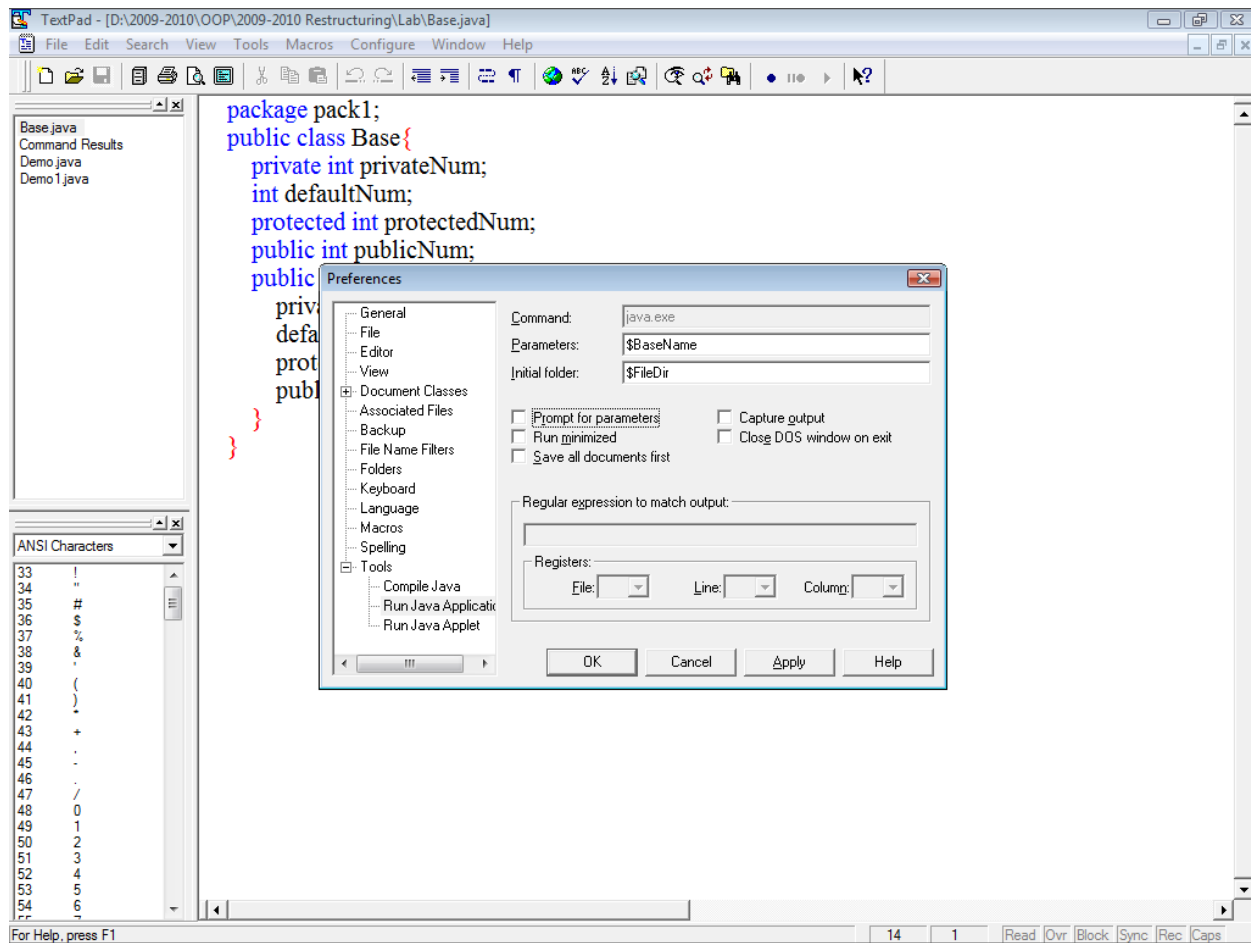
Step 5: In the Preference window, Click on Tools - Select Compile Java

The below window is displayed:

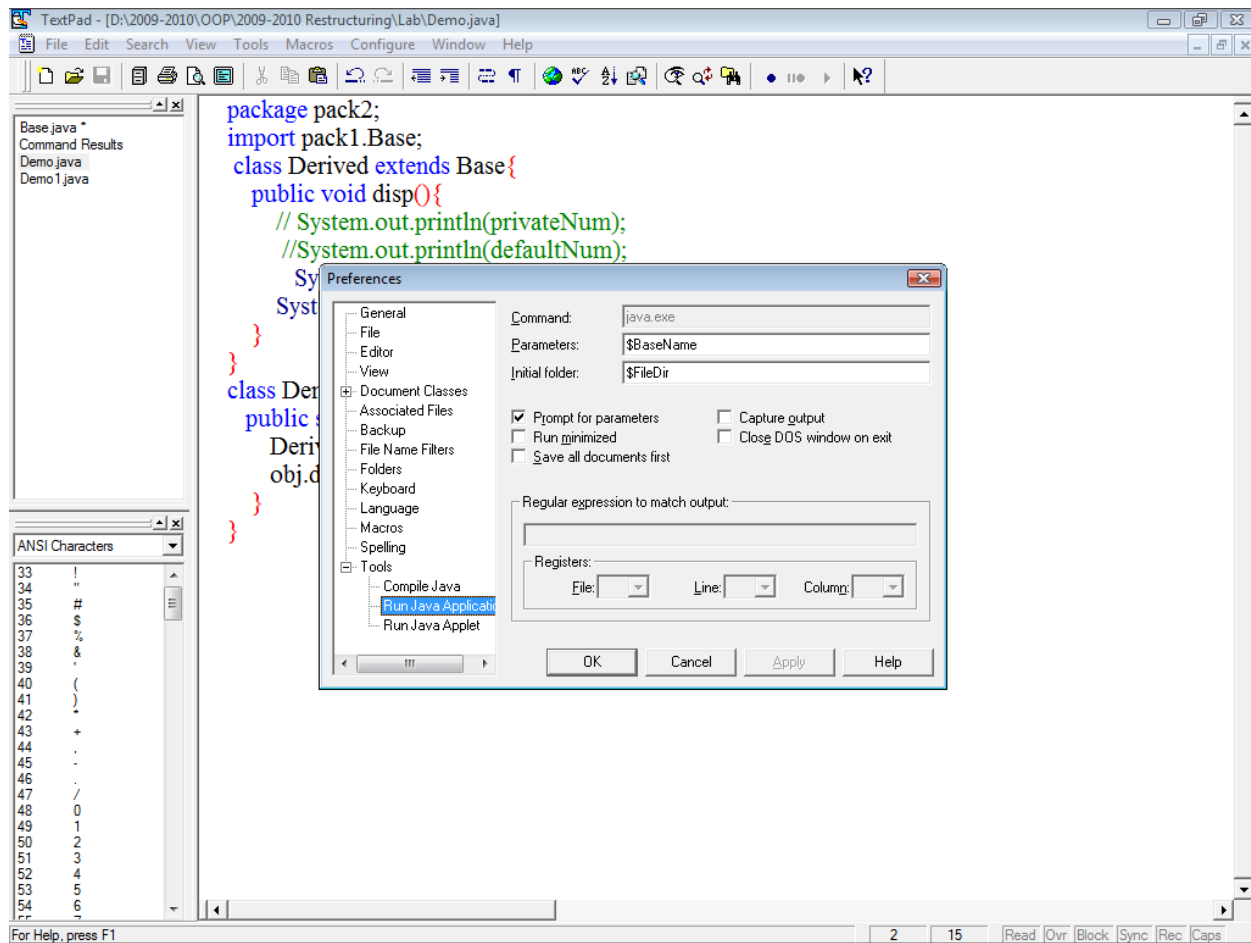


Step 6: Select Prompt for parameters - Click on Apply button - Click on OK

Step 7: In the Preferences window, Click on Tools- Select Run Java Application

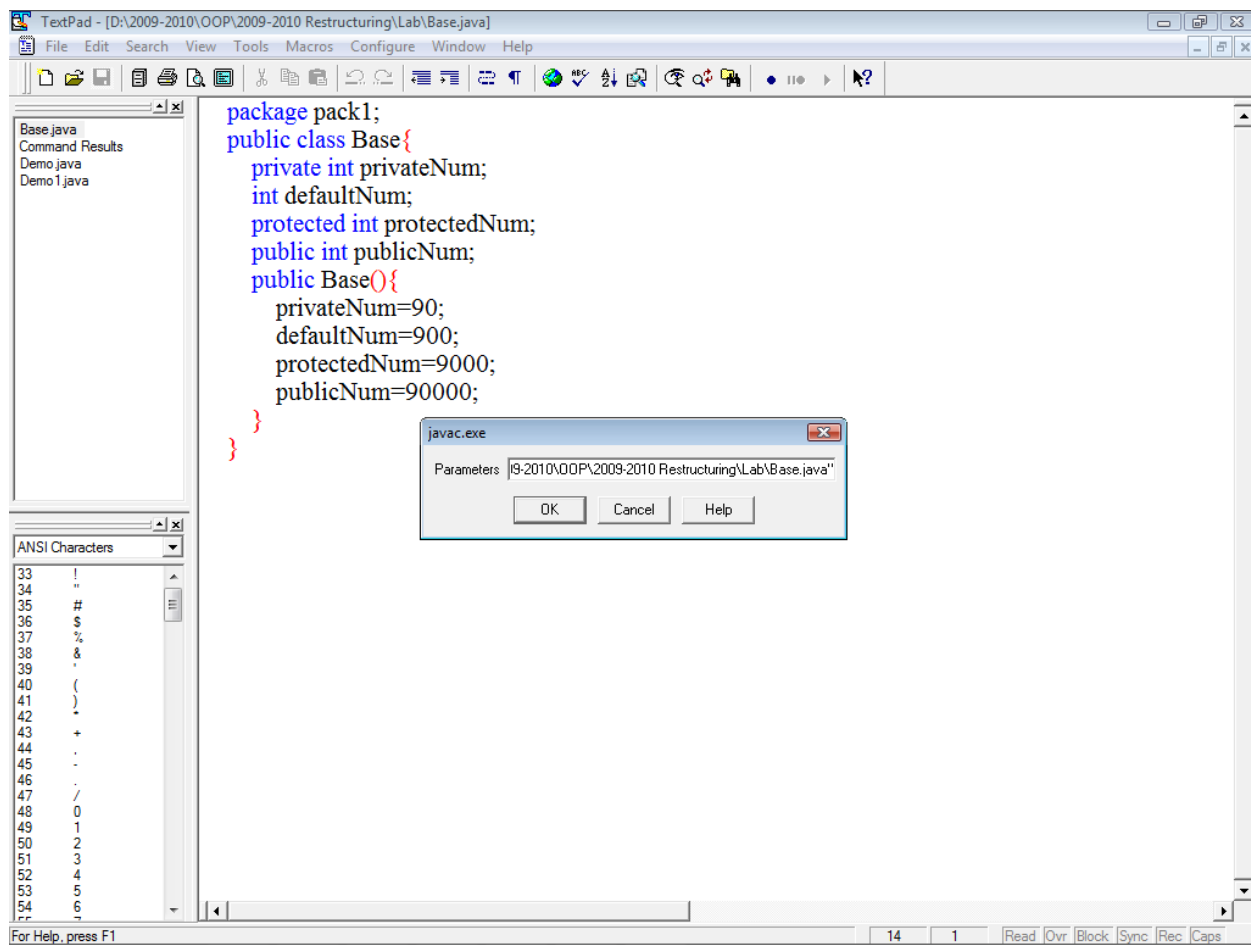


Step 8: Select Prompt for parameters - Click on Apply button - Click on OK

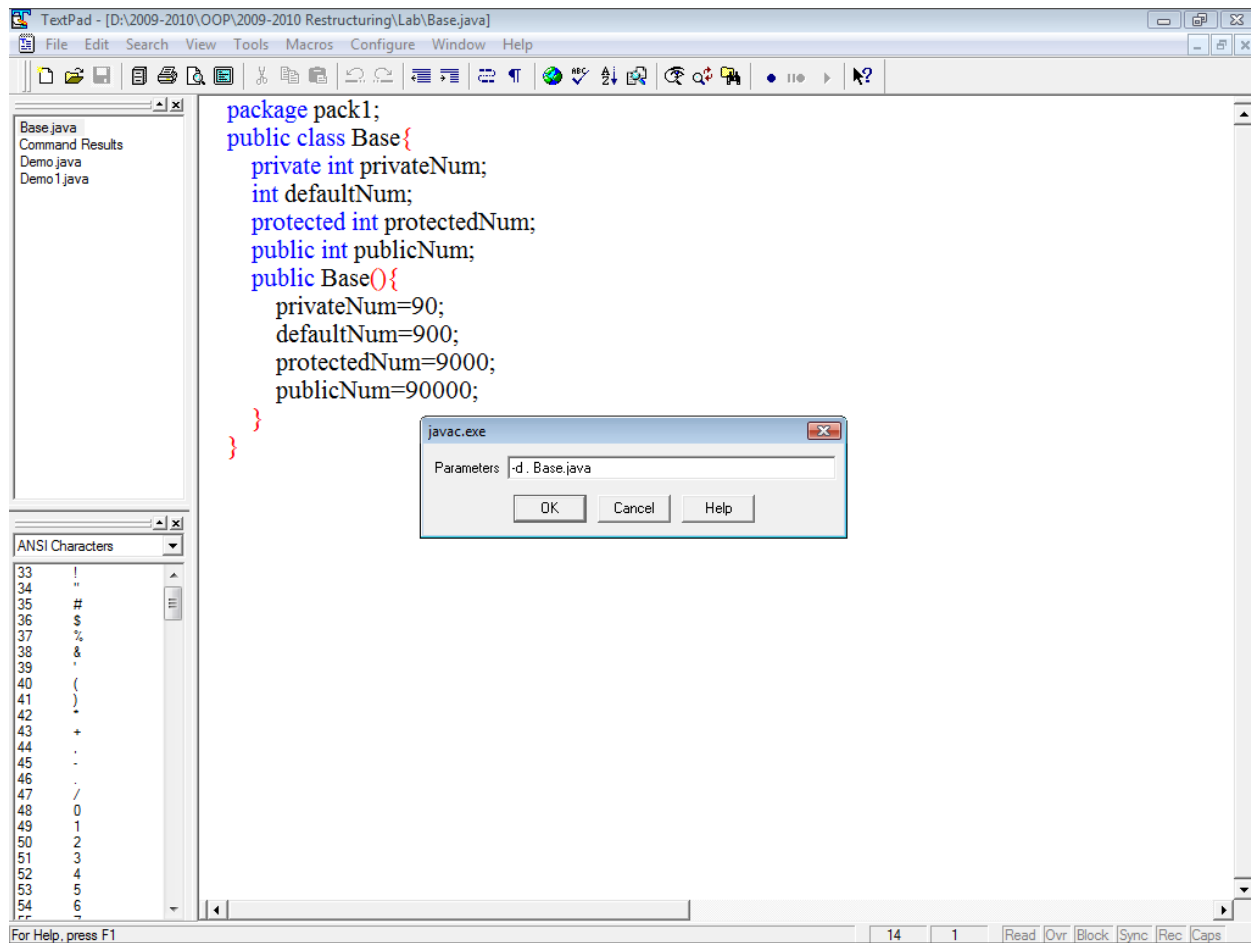


Step 9: Compile the program by pressing Ctrl+1

The below window is displayed:



Step 10: Give the command `-d . Base.java` in the Parameter box as below



Step 11: Click on OK

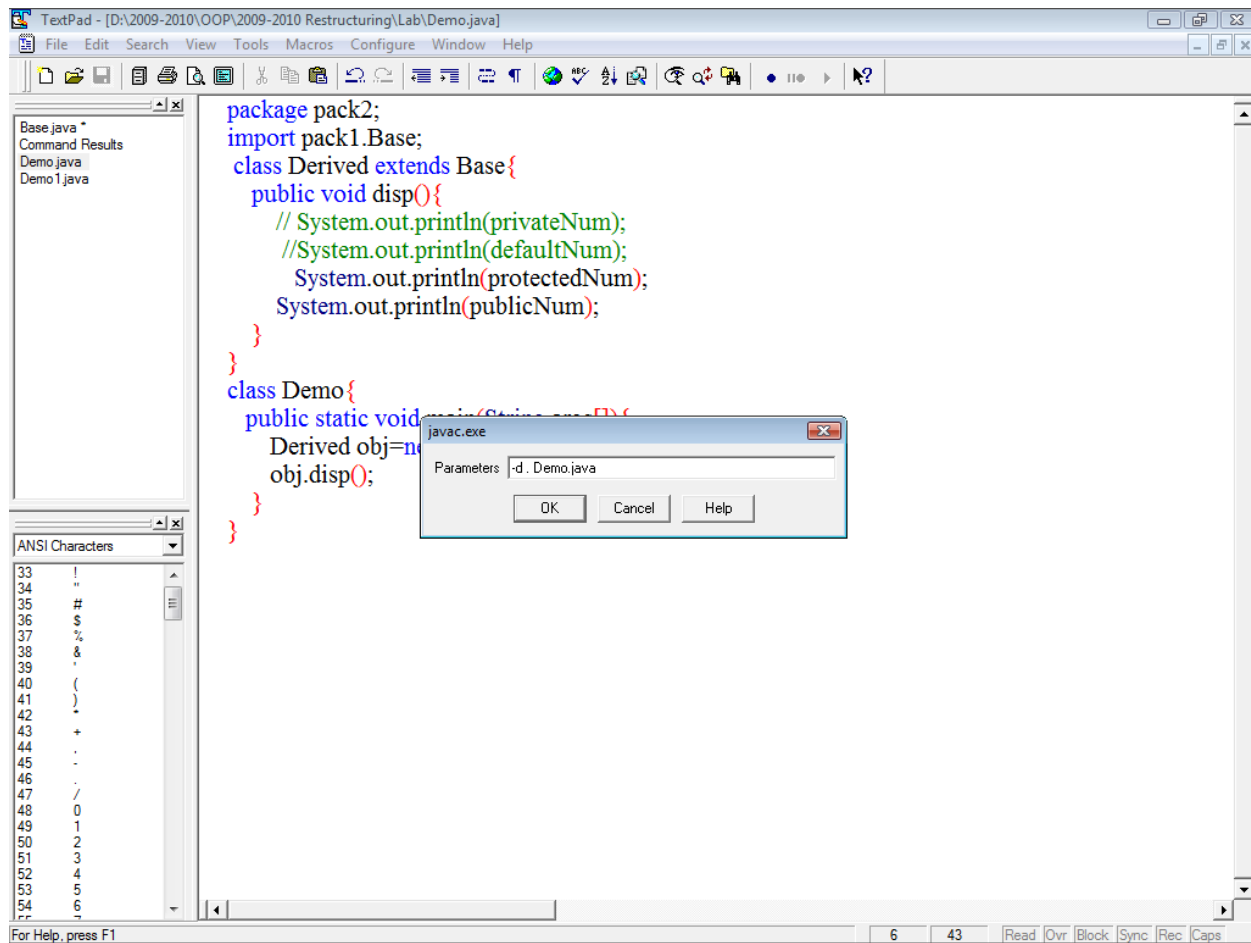
Step 12: Write the following program in a TextPad as below and save it as Demo.java:

```
package pack2;
import pack1.Base;
class Derived extends Base{
    public void disp(){
        // System.out.println(privateNum);
        //System.out.println(defaultNum);
        System.out.println(protectedNum);
        System.out.println(publicNum);
    }
}
class Demo{
    public static void main(String args[]){
        Derived obj=new Derived();
        obj.disp();
    }
}
```

Step 13: Compile the program and give the following command in the Parameters Box

-d . Demo.java

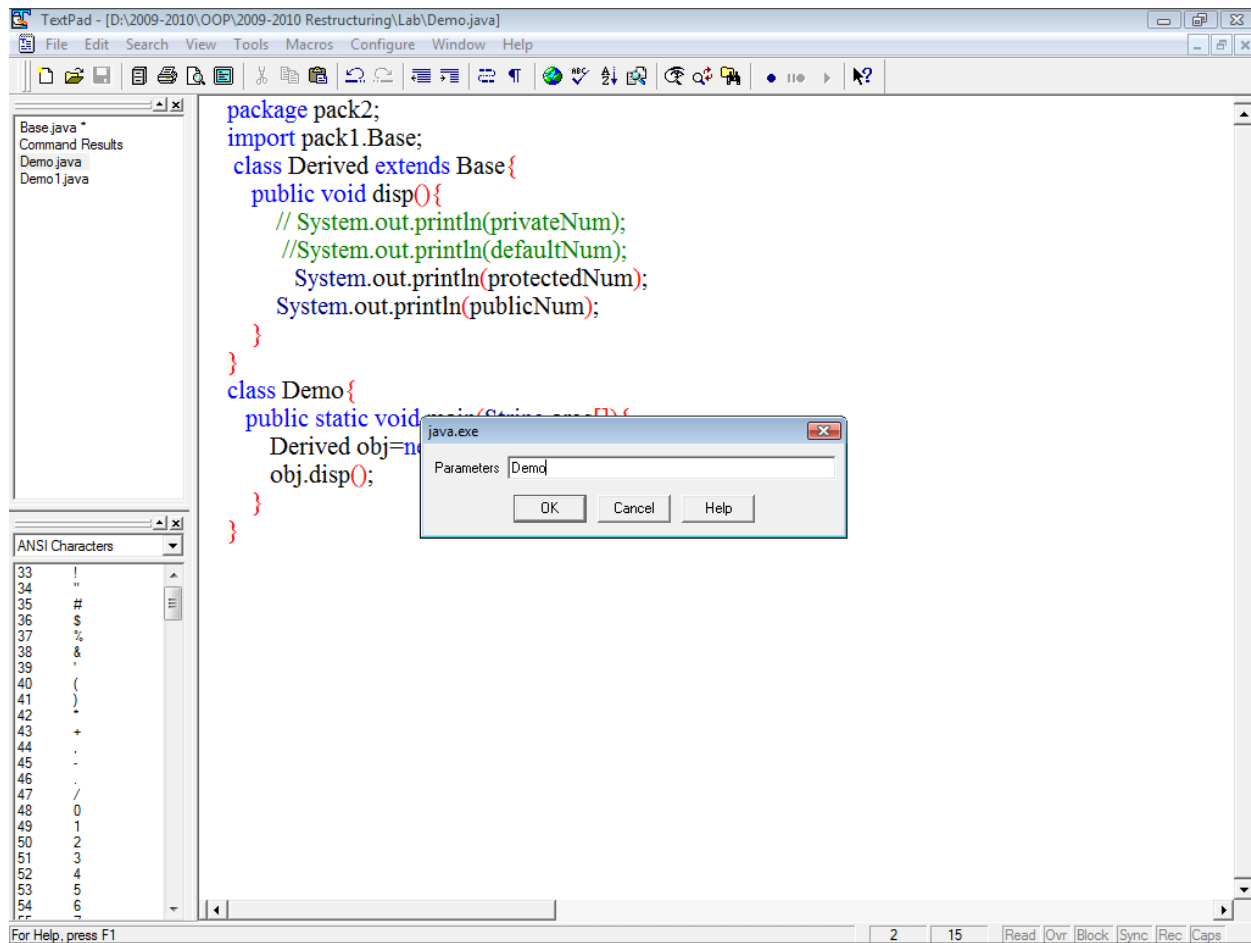
You will be getting window as follows



Step 14: Click on OK

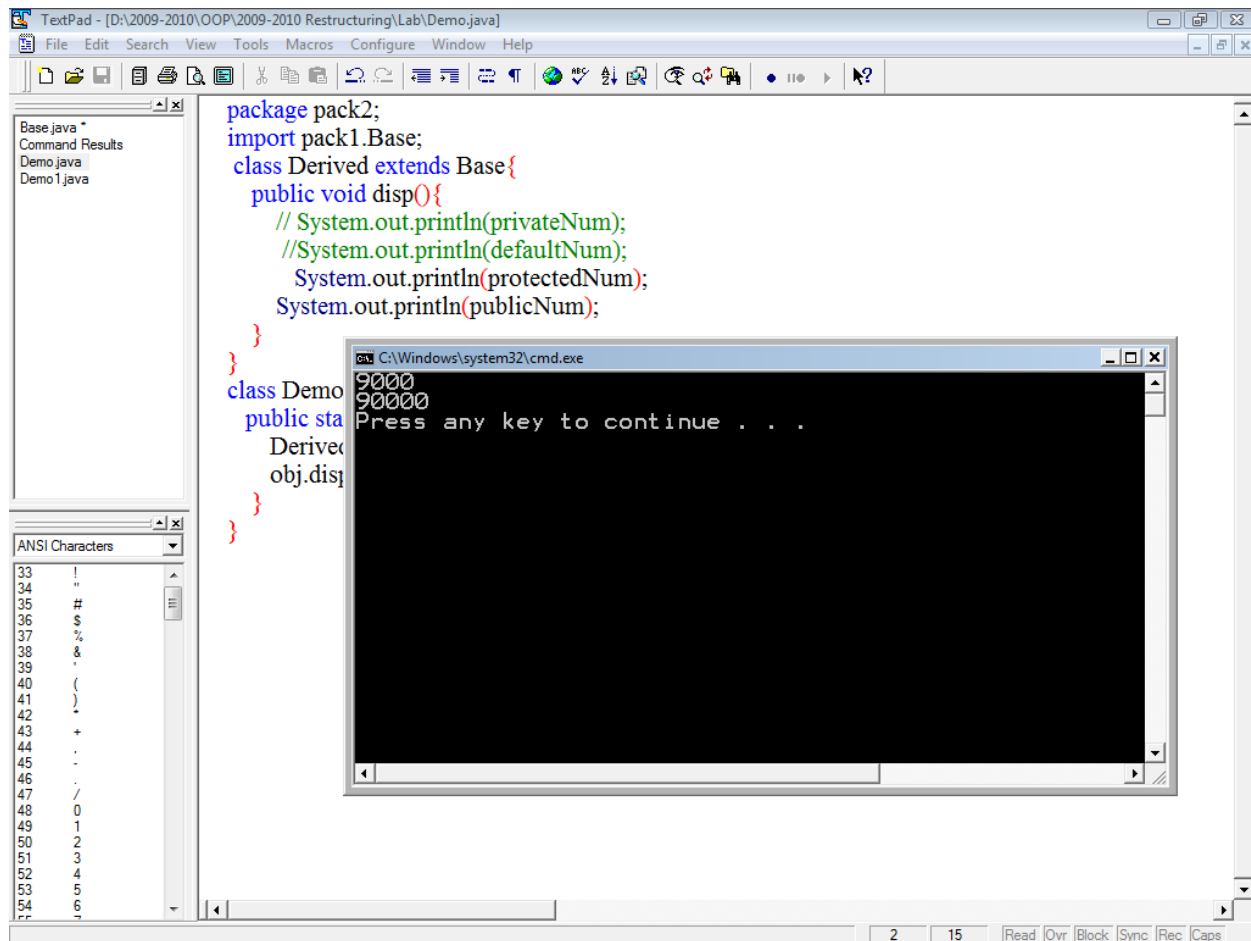
Step15: Execute the program by pressing Ctrl+2

The below window is displayed:



Step16: Type **pack2/Demo** in the parameters Box and Click on **OK**

The output window will be displayed as shown below:



The screenshot displays a Java IDE window titled "TextPad - [D:\2009-2010\OOP\2009-2010 Restructuring\Lab\Demo.java]". The main editor shows the following Java code:

```
package pack2;
import pack1.Base;
class Derived extends Base{
    public void disp(){
        // System.out.println(privateNum);
        //System.out.println(defaultNum);
        System.out.println(protectedNum);
        System.out.println(publicNum);
    }
}
class Demo
public static void main(String[] args){
    Derived obj = new Derived();
    obj.disp();
}
```

On the left, a file explorer shows "Base.java", "Command Results", "Demo.java", and "Demo1.java". Below it, an "ANSI Characters" table is visible:

ANSI Characters
33 !
34 "
35 #
36 \$
37 %
38 &
39 '
40 (
41)
42 *
43 +
44 ,
45 .
46 /
47 0
48 1
49 2
50 3
51 4
52 5
53 6
54 7

Overlaid on the IDE is a Windows command prompt window titled "C:\Windows\system32\cmd.exe". It shows the output of the Java program:

```
9000
90000
Press any key to continue . . .
```