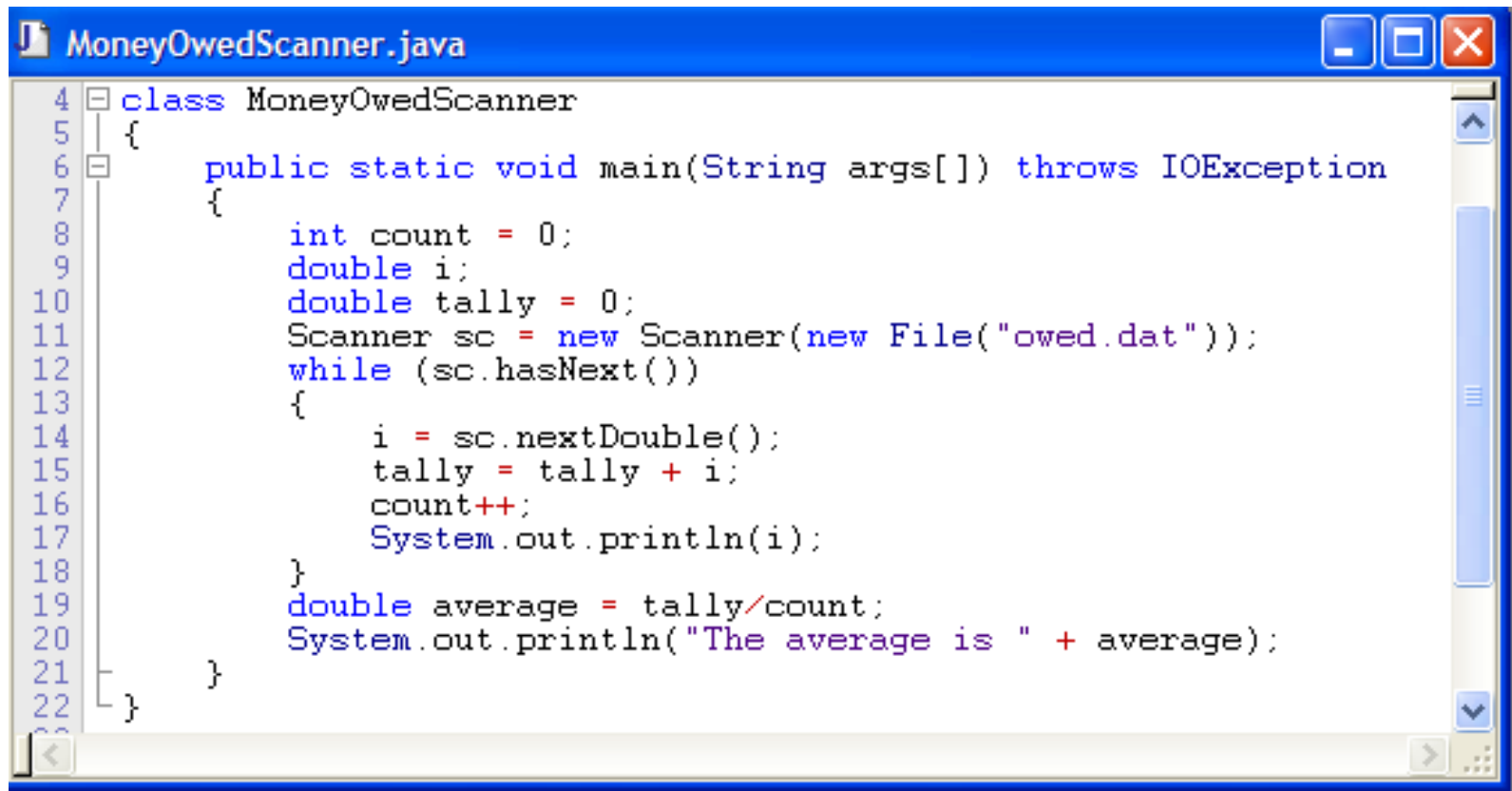


# File Input Using Scanner Class

Compare the fewer number of lines required using the Scanner class(22) with the number of lines required in the previous lesson.(30)



```
4 class MoneyOwedScanner
5 {
6     public static void main(String args[]) throws IOException
7     {
8         int count = 0;
9         double i;
10        double tally = 0;
11        Scanner sc = new Scanner(new File("owed.dat"));
12        while (sc.hasNext())
13        {
14            i = sc.nextDouble();
15            tally = tally + i;
16            count++;
17            System.out.println(i);
18        }
19        double average = tally/count;
20        System.out.println("The average is " + average);
21    }
22 }
```

# Count Words

```
CountWords.java *
1 import java.io.*;
2 import java.util.*;
3
4 class MoneyOwedScanner
5 {
6     public static void main(String args[]) throws IOException
7     {
8         int count = 0;
9         String word;
10        int the = 0, and = 0, or = 0, other = 0;
11        Scanner sc = new Scanner(new File("news.txt"));
12        while (sc.hasNext())
13        {
14            word = sc.next();
15            if(word.equalsIgnoreCase("the"))
16            {
17                the++;
18            }
19            else if(word.equalsIgnoreCase("and"))
20            {
21                and++;
22            }
23            else if(word.equalsIgnoreCase("or"))
24            {
25                or++;
26            }
27            else
28            {
29                other++;
30            }
31            System.out.println(word);
32            count++;
33        }
34        System.out.println("Total Words: " + count);
35        System.out.println("Uses of the word 'the': " + the);
36        System.out.println("Uses of the word 'and': " + and);
37        System.out.println("Uses of the word 'or': " + or);
38        System.out.println("Uses of other words : " + other);
39    }
40 }
```

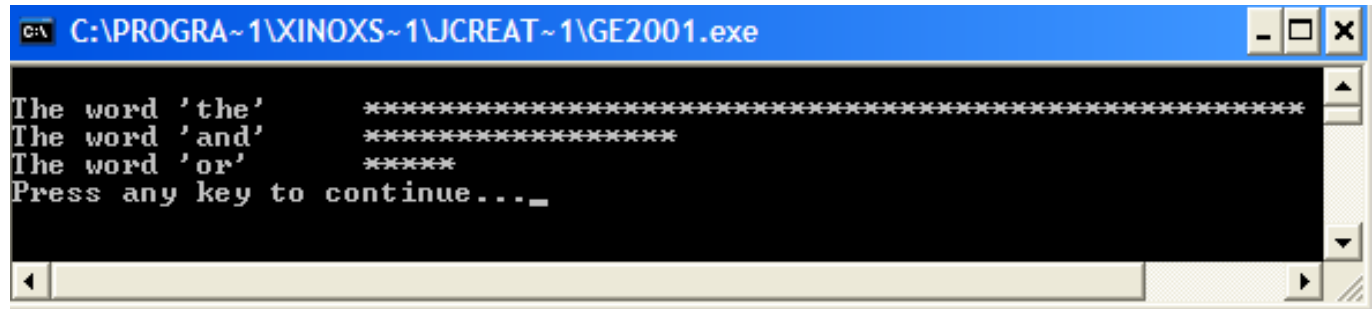
# Graphing With Histograms

```
System.out.print("\nThe word 'the'      ");
for(int x = 0; x < the; x+=2)
{
    System.out.print("*");
}

System.out.print("\nThe word 'and'      ");
for(int x = 0; x < and; x+=2)
{
    System.out.print("*");
}

System.out.print("\nThe word 'or'       ");
for(int x = 0; x < or; x+=2)
{
    System.out.print("*");
}
System.out.print("\n");
```

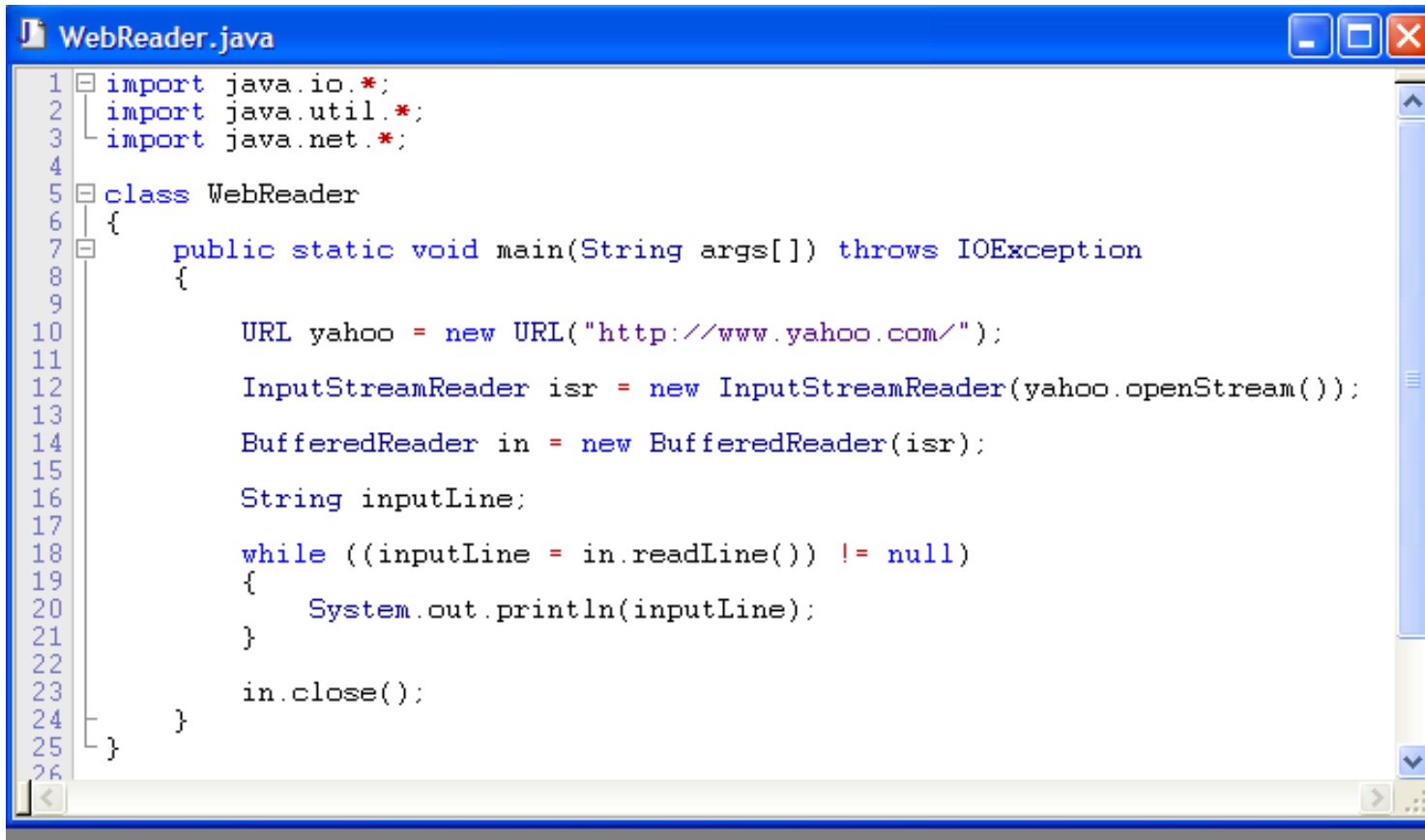
This addition to the previous program simply takes the repetitions / 2 of the number of each words and prints out a "\*" to create a histogram effect.



## JChooser Dialog Box- Letting the user choose the file

```
FileDialog.java *
1 import java.io.*;
2 import java.util.*;
3 import javax.swing.*;
4 import java.awt.*;
5
6 class FileDialog
7 {
8     public static void main(String args[]) throws IOException
9     {
10         JFileChooser chooser = new JFileChooser();
11         BufferedReader reader;
12         String program = "";
13         String file = "";
14         File selectedFile;
15
16         chooser.setDialogTitle("Load which file?");
17         // Get the file chosen in a JChooser open file dialog
18         int result = chooser.showOpenDialog(null);
19         if (result == JFileChooser.APPROVE_OPTION)
20         {
21             selectedFile = chooser.getSelectedFile();
22             file = selectedFile.getCanonicalPath();
23         }
24
25         String word;
26         Scanner sc = new Scanner(new File(file));
27         while (sc.hasNext())
28         {
29             word = sc.next();
30             System.out.println(word);
31         }
32     }
33 }
34
35
```

# Reading From A Web Page

A screenshot of a Java IDE window titled "WebReader.java". The window contains the following Java code:

```
1 import java.io.*;
2 import java.util.*;
3 import java.net.*;
4
5 class WebReader
6 {
7     public static void main(String args[]) throws IOException
8     {
9
10        URL yahoo = new URL("http://www.yahoo.com/");
11
12        InputStreamReader isr = new InputStreamReader(yahoo.openStream());
13
14        BufferedReader in = new BufferedReader(isr);
15
16        String inputLine;
17
18        while ((inputLine = in.readLine()) != null)
19        {
20            System.out.println(inputLine);
21        }
22
23        in.close();
24    }
25 }
26
```

The code defines a class named "WebReader" with a "main" method. It uses "URL" to connect to "http://www.yahoo.com/", "InputStreamReader" to read the stream, and "BufferedReader" to read line by line. The output of each line is printed to the console. The code is displayed in a text editor with a blue title bar and standard window controls.

# User Chooses Web Site

```
WebReader2.java
1 import java.io.*;
2 import java.util.*;
3 import java.net.*;
4 import javax.swing.*;
5
6 class WebReader2
7 {
8     public static void main(String args[]) throws IOException
9     {
10
11         String address;
12         address = JOptionPane.showInputDialog("Enter site address");
13
14         URL site = new URL(address);
15
16         InputStreamReader isr = new InputStreamReader(site.openStream())
17
18         BufferedReader in = new BufferedReader(isr);
19
20         String inputLine;
21
22         while ((inputLine = in.readLine()) != null)
23         {
24             System.out.println(inputLine);
25         }
26
27         in.close();
28     }
29 }
```

# Your Test Mark?

So you want to know your test mark...will you are going to have to work for it.

Write a program that prompts the user for a password code and displays the mark read from a web site.

Here is a template for the program.

CheckMark.zip

Download this file and unzip it.

Complete the program and when it is running, I will give you your code.

Address will be <http://spcss.ca/3m/'name.txt'>