

COMP2232 - Lab Practical #6

Fun with Words & Files

*This lab introduces the use of **file processing**. You will need the files you created in the “Fun with Words” Lab.*

1. Download the file **myList.txt** from the course page and save it to a folder.
2. Copy the following code into a file called **FileDemo.java** . Save it to the **same folder** as **myList.txt** .

```
import java.util.ArrayList;
import java.util.Scanner;
import java.io.File;
import java.io.FileWriter;
import java.io.IOException;

public class FileDemo
{
    public static void main(String args[]) throws Exception
    {
        ArrayList<String> myList = new ArrayList<String>();
        File inFileName = new File("myList.txt"); //file to read from
        Scanner inFile = new Scanner(inFileName); //specifying file stream

        while (inFile.hasNext()) //read data from file & place into the list
        {
            myList.add(inFile.nextLine());
        } //while

        File outFile = new File("Results.txt"); //file for writing to

        //create the FileWriter Object
        FileWriter fileWriter = new FileWriter(outFile);

        int x = 0;

        while (x < myList.size()) //write list to the file
        {
            fileWriter.write(myList.get(x)+" ... \n");
            x++;
        } //while

        fileWriter.flush();
        fileWriter.close(); //close stream
    }
} //FileDemo
```

3. Compile and run the code. Check the folder. You should see an additional text file.
4. Study the code and see how it performs file processing.

Coding Exercise: Random Absurdities

1. Modify your **RandomAbsurdities** class. Update your **constructor** so that lists A, B and C are now initialized using data read from the files provided (listA.txt, listB.txt, listC.txt)
2. Modify your driver class such that each time an absurdity is generated, it must be displayed to the screen and added to a file called “absurdities.txt”.

<End of Lab>