Philip Pesic

Week 15

April 30 2023

Week 15 Program

1) Open a TEXT editor program

2) Type in 50 words, one word per line, all words of the SAME catagory, max chars per word is 8.

Example: 50 words of some names in the periodic table, or Flowers, or cars or....

3) Save the file as myWordFile.txt

Part 2

Write a program the reads the myWordFile.txt

1) Create an array of 'strings' called myWordArray

2) Write code that opens the file

3) Read one word at a time from the file and then write it into the myWordArray.

Part 3

In the program, after all words are read from the file and written into the array...

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Find code to randomize the 50 words in the array, Partial hint below...

```
int r = 0;

string temp;

for (int x = 0; x < 50; x++)

{

r = random.....number..... // code to get a random number between 1..49

temp = myWordArray[x];

myWordArray[x] = myWordArray[r];

myWordArray[r] = temp;

}
```

Part 4

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In the program, write a Loop for the arrray and print out the 50 words.

```
package Prog;
```

```
import java.io.File;
import java.io.FileNotFoundException;
import java.util.Scanner;
import java.util.Random;

class prog {

   public static void shuffleArrayInPlace(String arr[], int size) {
       Random rand = new Random();

       for (int i = 0; i < size; i++) {

           int lastIndex = size - i - 1;

           int randomIndex = rand.nextInt(lastIndex + 1);
           String tempSwapper = arr[lastIndex];
           arr[lastIndex] = arr[randomIndex];
           arr[randomIndex] = tempSwapper;
       }
   }

   public static void main(String[] args) {
       String cars[] = new String[50];
       int i = 0;
       try {
           File car = new File("Prog/Cars.txt");
           Scanner in = new Scanner(car);
           while (in.hasNextLine()) {
               cars[i] = in.nextLine();
               i++;
               if (i >= 50) {
                   break;
```

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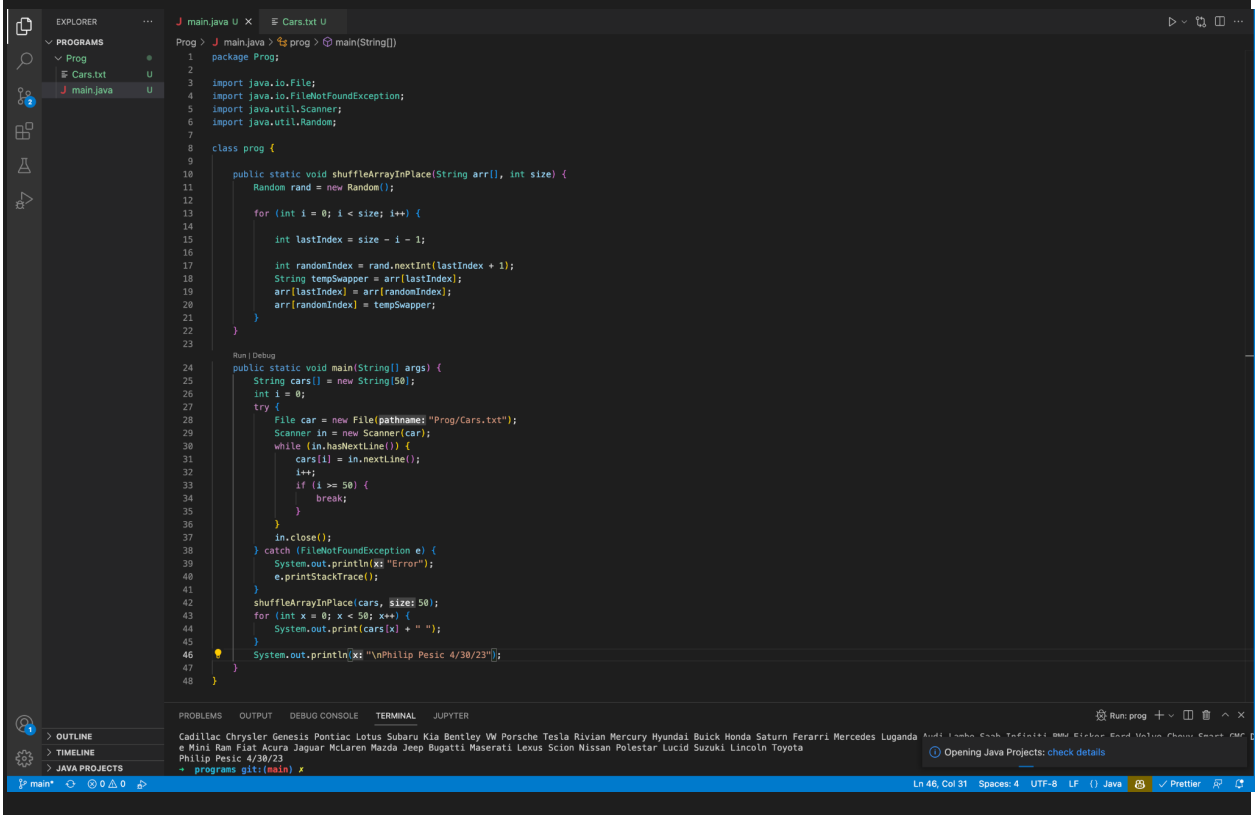
```
                }
            }
            in.close();
        } catch (FileNotFoundException e) {
            System.out.println("Error");
            e.printStackTrace();
        }
        shuffleArrayInPlace(cars, 50);
        for (int x = 0; x < 50; x++) {
            System.out.print(cars[x] + " ");
        }
        System.out.println("\nPhilip Pesic 4/30/23");
    }
}
```



I learned how to read from a file in Java