ECU178 Computer Science: 210CT - Programming, Algorithms and Data Structures Portfolio

Due on Monday, December 15th, 2014 $Dr\ James\ Shuttleworth$

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Item 1: Week 3 - Linear Search and Duplicate Finder

Pre-Homework 1: Write a Program that displays your name 10 times

Listing 1: NameReapeat class JAVA code

```
/**
  * Created by Rob on 23/10/2014.
  */
public class NameRepeat {

    public static void main(String[] args) {

        NameRepeat name = new NameRepeat();
        name.DoTheThing("Rob");
    }

    public void DoTheThing(String _name) {

        for (int i = 0; i<10;i++) {
            System.out.println((i+1) + " " + _name);
        }
}</pre>
```

Pre-Homework 2: Write a function that draws a square of stars given as a parameter

Listing 2: StarSquare class JAVA code

```
* Created by Rob on 23/10/2014.
   public class StarSquare {
       public String ast = "*";
       public static void main(String[] args) {
            StarSquare sSquare = new StarSquare();
            sSquare.writeSquare(10);
10
       }
       public void writeSquare(int size) {
15
            for (int i =0; i<size;i++) {</pre>
                for (int j = 0; j<size; j++) {</pre>
                     System.out.print(ast);
                System.out.println();
       }
25
```

Pre-Homework 3: Write a program to open a file and display it's contents in capitals

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Listing 3: RtoCaps class JAVA code

```
/**
    * Created by Rob on 23/10/2014.
   */
   import java.io.File;
  import java.io.FileNotFoundException;
   import java.util.Scanner;
   public class RtoCaps {
       public static void main(String[] args)throws FileNotFoundException {
           File inFile = new File("C:\\Users\\Rob\\Documents\\2nd Year\\210CT\\" +
                   "Week 3 linear search\\com.Pre-Homework\\input.txt");
           RtoCaps obj = new RtoCaps();
           obj.rInput(inFile);
       }
15
      public void rInput(File inFile) throws FileNotFoundException{
           Scanner in = new Scanner(inFile);
           while(in.hasNextLine())
               String line = in.nextLine();
               System.out.println(line.toUpperCase());
```

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Item 3: Week 6 - Harmonic Series or Pivot Selection

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Item 5: Week 8 - Linked List Delete function or Linked List Sortings

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