**Bucks County Community College**

**Department of Science, Technology, Engineering & Mathematics (STEM)**

**CISC122 Computer Science II**

LAB03:Arrays Points: 25

**OBJECTIVE**

* To demonstrate defining and initializing arrays
* To demonstrate processing arrays sequentially
* To demonstrate a sequential search through an array using a method

**REQUIRED**

A report of your work, in a flat pocket folder, in the following order:

1. Grade form **Lab03GradeForm.doc**

2. This program description **Lab03Description.doc**

Listing of test data and expected results

3. Problem Analysis

4. The listing of the source program **Lab03.java**

5. Listing of the output file **Lab03Report.txt**

6. Listing of the run of the program (monitor)

**SPECIFICATIONS**

Start with the Java program from LAB02 and save it as LAB03.java

Make the following changes:

Create parallel arrays for the stock ticker and the stock name

Parallel arrays are two separate arrays that are positionally linked,

for example: the ticker in row 0 is the ticker for the stock name in row 0

Initialize these using file Lab03ArrayFile.txt, which contains the tickers and the stock names

Refer to Java04Strings

Create a method that will display a list of stock tickers and stock names on the monitor.

Call this method before the main process loop.

Create a method that will do a sequential search through the arrays:

Search through the ticker array to find a match for the input ticker

If no match is found, use “Invalid Stock Ticker” for the stock name

Use the corresponding stock name as output to the report

Refer to Java06SequentialSearch

NOTE: you must trim extra spaces or tabs off of two variables:

The stock name for the array AND the stock ticker from the stock input file

Input file is **Lab03Input.txt** and is in the CISC122 LAB03 folder

Output file to be created: **Lab03Report.txt**

Expected results are in a file called Lab03ExpectedResults

SAMPLE output report

Stock Value and Yield Report

Stock Ticker & Name Price Shares Value Dividend Yield

xxxx xxxxxxxxxxxxxxxx 99.99 99.999 9999.99 99.99 9.99%

xxxx xxxxxxxxxxxxxxxx 99.99 99.999 9999.99 99.99 9.99%

xxxx xxxxxxxxxxxxxxxx 99.99 99.999 9999.99 99.99 9.99%

TOTAL 9999.99