**BCS 230 Lab – Arrays**

***Overview***

Write a sales program that uses an array.

***Part 1***

Variables: An array of double to hold each month’s sales.

Methods: Average - Calculates the avg sales for the year. Pass in an array of double.

Create a program called Sales. The program should contain an array that stores monthly sales figures.

Questions

1. How big should the array be?
2. What is the range of indices?
3. Might there be any problems relating month numbers to array indexes?

***Part 2***

**Function ShowReport:** Write a function that takes an array of double as a parameter. Add a method called ShowReport() that will print a report. The report should show a detail line for each month. It should also show the average sales for the year and the total sales for the year. For example:

Jan 100.00

Feb 130.00

…

Dec 120.00

Avg 105.00

Total 1300.00

Note: Use a loop to print the data.

***Part 3***

**Function ShowReportToFile:** Write a function that takes an array of double AND a filename as parameters. The method should print the exact same data as the ShowReport method does but write it to a file instead. The name of the file to write to should be passed in as a parameter.

***Part 4***

Modify that it shows the following menu:

**Sales Program**

**-----------------**

**1. Print report to console**

**2. Print report to file**

**3. Exit**

**Enter Choice:**

Take the appropriate action when the user makes a choice. For example, if the user enters a 1 then the program should show the report on standard output.

Once the report is printed (to the console or a file) the program should redisplay the menu and allow the user to enter another choice.

The program should only end when the user types in a 3. If the user types in something other than 1, 2, or 3 display an “Invalid selection” message and redisplay the menu.