LAB 2 – SALES RECORDS

CS 143

INSTRUCTIONS:

- **You may do this project individually or with a partner. No groups with more than two people.**
- Your job is to write a top-down modularized program that allows a sales manager to create, add to, and view information from a file containing sales data for a given sales period.
- The program must ask the user for a file name and use that name throughout.
- It must contain a menu giving the user a choice of adding or viewing sales data or exiting the program.
- If the user chooses to add, it will allow the user to enter a sales person's name and the amount of sales made that sales period. If the user chooses to view, it displays a horizontal bar chart of sales people's names and relative sales activity.
  (see below)
- The program must continue to loop back to the menu until the user indicates they are done.
- Your program must work for all sales staff regardless of how many words they have in their name.   Madonna, Sting, Gordon Noah Taub, John Jacob Jinkle Hymer Smith, etc.
- Your program must have data persistence, that is, if the user closes the program, and reopens it, and inputs the same file name, then the data entered in the first run is still available.
- Your code must use parallel, partially-filled arrays to store the names and amounts.
- As in the figure below your 'bar chart' will probably be made of a number of symbols such as *,   the value of each * should be dependent on either the total sales in the period, or the largest sales figure in the array. This will allow your code to be just as useful to a company that sells 10 cent pencils as one that sells $70,000 sports cars. When you display your bar chart you should indicate to the reader the value of each *, so they know how to read the chart.
- Your code will be graded on good Top-Down-Programming, comments and style, how well your program performs, how well it is 'bullet proofed' and, the usability and appearance of your menus, bar chart and other aspects of user experience.

EXAMPLE OUTPUT:

```
C:\Windows\system32\cmd.exe

Welcome to the Sales Record Program!

Please enter your filename: test.txt

Would you like to:
  1 - add a sales record
  2 - view the sales report
  x - exit
 > 1
Enter the sales person's name: Sylvia
Enter the sales made by Sylvia: 35078.92

Would you like to:
  1 - add a sales record
  2 - view the sales report
  x - exit
 > 2


Mary Jo        *****************************
John Jr.       *
Freddo         ******************
Betty Jean     ******************************************************
Sylvia         **************************************

Would you like to:
  1 - add a sales record
  2 - view the sales report
  x - exit
 > x
Goodbye!
Press any key to continue . . .
```