

Assignment

Contact Database

# Basic Functionality

The basic functionality of this program is essentially two options (plus the option to exit the program):

1. Create a New Contact
2. Display Existing Contacts
3. Exit the Program

These options should make up your main menu.

# Create a New Contact

Creating a new contact is made up of the following steps:

- (a) ask the user (prompt) for information
- (b) save information in a variable (record)
- (c) open a data file for write, seek, and modify
- (d) write the variable (record) to the end of the file
- (e) close the file when done!

# Create a New Contact

- (a) ask the user (prompt) for information
- (b) save information in a variable (record)

These are steps we have used since the beginning of the course. Ask the user for some information (**put statement**) and then store their response in a variable (**get statement**).

For this program, the **variables** are actually all part of the same **record**.

# Create a New Contact

(c) open a data file for write, seek, and modify

**write** – save binary data to the file

**seek** – search for the end of the file

**mod** – change the file without deleting data

(d) write the variable (record) to the end of the file

The reason we use records is because they are a single package with lots of data. **Write each record to the file with a single command.**

(e) close the file when done!

# Display Existing Contacts

Displaying all contact information consists of the following:

- (a) open a file for reading
- (b) check for the end of the file  
after reaching the end of the file, go to (f)
- (c) read the data for an entire contact (record)
- (d) display the contact with nice formatting
- (e) start over at step (b)
- (f) close the file!