

Final Project

Write a very simple address book program using the LC-3 assembly language. You must have and use at least three functions of your own.

Each person record has two fixed-sized data fields: a name and a phone number, both of size 8 characters. Allocate enough memory to store 10 person records.

The program has two database operations: 1) Add a new record; 2) Find a person record;

The program starts by displaying a menu to select which of the above two operations to perform. After selecting an operation, the program will perform that operation.

Details of the operations:

1) Add a new record.

Your program will prompt the user to enter a name and a phone number and then save that into the appropriate allocated memory space.

2) Find a person record.

Your program will prompt the user to enter a name. It will then search the database for a matching name. Print out the person's phone number if found, else print out a message saying not found.

Implement these two operations as functions.

Hints:

You might want to have the following helper functions:

1) Function to display the menu.

2) Function to calculate the offset for the next person record in the database

3) Function to check whether two strings are equal or not

4) Print out a person record