**Renee Thomas**

**CIS170C\_Lab07**

**2/23/14**

**Lab # CIS CIS170C-A7**

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// Programming Assignment: LAB07

// Developer: Renee Thomas

// Date Written: 2/23/14

// Purpose: Read and Write to files (Names List)

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#include <iostream>

#include <string>

#include <iomanip>

#include <fstream>

using namespace std;

// inititialize my functions

void menu();

void writeNameList();

void printNameList();

const char delimiter = ',';

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// main fuction

int main()

{

cout << "Welcome to the Names Database" << endl;

menu();//only need to call menu() since all other functions are called in this function

system("pause");

return 0;

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// create menu function for add, print, or exit

void menu()

{

char choice;

// do loop so that everything runs though at least 1x and keep running until choice e for end.

do{

// create menu

cout << "(A)dd name" << endl;

cout << "(P)rint name list"<< endl;

cout << "(E)xit" << endl;

cout << "Enter choice: ";

cin >> choice;

cin.ignore();

cout << endl;

// use switch statement to process menu answer

switch(toupper(choice))

{

// write the entries to a file

case 'A': writeNameList(); break;

// call the entries to program to write out to screen

case 'P': printNameList(); break;

// stop program

case 'E': cout << "Good-Bye" << endl; break;

// not a real choice

default: cout << "Invalid entry" << endl; break;

}//swtich

cout << endl;

}while(choice != 'e' || choice != 'E');

}// end menu()

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// create function to write entries to file

void writeNameList()

{

ofstream outMyStream("names.txt", ios ::app); //create object to write entries to file that append to current file

if(outMyStream.is\_open())

{

// initialize string variables

string name = "";

string stAddr = "";

string city = "";

string state = "";

string zip = "";

char again = 'y';

do{

// get info from user

cout << "Enter name: ";

getline(cin, name);

cout << "Enter street address: ";

getline(cin, stAddr);

cout << "Enter City: ";

getline(cin, city);

cout << "Enter state: ";

getline(cin, state);

cout << "Enter zip code: ";

getline(cin, zip);

// write to the file creating csv file with delimiter

outMyStream << name << delimiter;

outMyStream << stAddr << delimiter;

outMyStream << city << delimiter;

outMyStream << state << delimiter;

outMyStream << zip << delimiter;

cout << "Enter another name? (Y or N) ";// enter another name?

cin >> again;

cin.ignore();

cout << endl;

}while (again == 'y' || again == 'Y');// keep looping while user types y

outMyStream.close();// close file!

}

else

cout << "File not opened" << endl;// if file not found, let user know

}

void printNameList()

{

ifstream inMyStream("names.txt");// create object to get names from file

if(inMyStream.is\_open())// check to see if file is open

{

// initialize variables to make code pretty and easier to read

string recBreaks = "";

string titleFlourish = "";

titleFlourish.assign(20, '\*'); //This is the character used to flourish around the title

recBreaks.assign(20, '-'); //This is the character between record displays

int itemCount = 1;

int fieldNum = 1;

cout<< titleFlourish<<endl;// output pretty stuff and title

cout << " Names List " << endl;

cout<< titleFlourish<<endl<<endl;

string buffer;//create bufffer variable as string

// read through records in file stopping at each ","

getline (inMyStream, buffer, ',');

while(!inMyStream.eof()) // loop through file while there are more entries

{

// could have used switch statement... but wrote this first.

if(fieldNum==1)

{

cout << recBreaks << endl;

cout << "item # " << itemCount << endl;

cout << "name: " << buffer << endl;

fieldNum++;

}

else if(fieldNum==2)

{

cout << "Street Address: " << buffer << endl;

fieldNum++;

}

else if(fieldNum==3)

{

cout << "City: " << buffer << endl;

fieldNum++;

}

else if(fieldNum==4)

{

cout << "State: " << buffer << endl;

fieldNum++;

}

else

{

cout << "Zip Code:" << buffer << endl;

fieldNum=1;

itemCount++;

}

getline (inMyStream, buffer, ',');

}// end while

cout << recBreaks << endl;

inMyStream.close();

}

else

cout << "Error: could not open file" << endl;

}// end function

Screen shot 1 of 2



