#include <stdio.h>

#include <stdlib.h>

#include <string.h>

#include <windows.h>

void enterInformation();

void displayInfoScreen();

void editInfoScreen();

void searchInfoScreen();

void homeScreen();

int i, j, count = 0, k[50];

void home();

void exit();

struct classs{

char classID[5], className[10], teacherName[20];

int numberOfStudents;

struct student{

char studentID[10], studentName[20], roomNumber[10], hometown[30], gender[15], \*classification;

int age;

float DB, EL, ALG2, AVG;

}sv[30];

}lp[20];

int checkClass(struct classs \*p, char className[10]) // Check class da ton tai

{

int check = 0;

for(i = 0; i < count; i++){

if(strcmp((p+i)->className, className) == 0){

check = 1;

break;

}

}

return check;

}

int checkClassID(struct classs \*p, char classID[5]){

int check = 0;

for(i = 0; i < count; i++){

if(strcmp((p+i)->classID, classID) == 0){

check = 1;

break;

}

}

return check;

}

int checkStudentID(struct classs \*p, char className[20], char studentID[10]){

int check = 0;

for(i = 0; i < count; i++){

if(strcmp((p+i)->className, className) == 0){

for(j = 1; j <= (p+i)->numberOfStudents; j++){

if(strcmp((p+i)->sv[j].studentID, studentID) == 0){

check = 1;

break;

}

}

}

}

return check;

}

int checkStudent(struct classs \*p, char className[10], char studentName[20]) // Check ten SV co ton tai

{

int check = 0;

for(i = 0; i < count; i++){

if(strcmp((p+i)->className, className) == 0){

for(j = 1; j <= (p+i)->numberOfStudents; j++){

if(strcmp((p+i)->sv[j].studentName, studentName) == 0){

check = 1;

break;

}

}

}

}

return check;

}

int setClassification(float AVG){

if(AVG >= 8 && AVG <= 10){

return 1;

}else if(AVG >= 6.5 && AVG < 8){

return 2;

}else if(AVG >= 5 && AVG < 6.5){

return 3;

}else{

return 4;

}

}

float averageScore(float diemDB, float diemEL, float diemALG2){

return (diemDB + diemEL + diemALG2)/3;

}

int checkScore(float diem){

if(diem < 0 || diem > 10){

return 1;

}

return 0;

}

int checkAge(int age){

if(age < 17 || age > 40){

return 1;

}

return 0;

}

void convertToCapital(char \*string) // Viet hoa toan bo chu cai

{

int length = strlen(string);

for (i = 0; string[i]!='\0'; i++) {

if(string[i] >= 'a' && string[i] <= 'z') {

string[i] = string[i] -32;

}

}

}

void editName(char \*name) // Sua name, xoa ki tu trong va viet hoa chu cai dau

{

int length = strlen(name);

i = 0;

while(i < length)

{

if(name[i] == ' ' && name[i+1] == ' ')

{

for(j = i; j < length; j++)

name[j] = name[j+1];

i--;

}

i++;

}

while(name[length-1] == ' '){

name[length-1] = '\0';

}

strlwr(name);

name[0] = toupper(name[0]);

for(i = 0; i < length; i++)

{

if(name[i] == ' ')

name[i+1] = toupper(name[i+1]);

}

}

void sortByClassName(struct classs lp[],int n) // Sap xep name class

{

struct classs temp;

for(i = 0; i < n-1; i++)

{

for(j = i+1; j < n; j++)

{

if(strcmp(lp[i].className, lp[j].className) > 0)

{

temp = lp[i];

lp[i] = lp[j];

lp[j] = temp;

}

}

}

}

void sortByStudentName(struct classs lp[], int slsv) // Sap xep name class

{

struct classs temp;

for(i = 0; i < slsv - 1; i++)

{

for(j = i + 1; j < slsv; j++)

{

if(strcmp(lp[i].sv[i].studentName, lp[j].sv[i].studentName) > 0)

{

temp = lp[i];

lp[i] = lp[j];

lp[j] = temp;

}

}

}

}

int checkNumber(char string[]) //Kiem tra co phai ki tu so

{

int check = 0;

for(i = 0; i < strlen(string); i++)

{

if(string[i] < '0'|| string[i] > '9')

{

check = 1;

break;

}

}

if(check == 0)

return 1;

else return 0;

}

int checkSpecialCharacters(char string[]) //Kiem tra co phai ki tu dac biet

{

int check = 0;

for (i = 0; i < strlen(string); i++)

{

if (string[i] < '0' && string[i] != ' '|| (string[i] > '9' && string[i] < 'A') || (string[i] > 'Z' && string[i] < 'a') || string[i] > 'z')

{

check = 1;

break;

}

}

if(check == 0)

return 1;

else return 0;

}

void enterClass(struct classs \*p) //Nhap lop

{

int luachon;

do{

printf("\n\nPlease enter class name [%d]: ", count+1);

do{

fflush(stdin);

gets((p+count)->className);

convertToCapital((p+count)->className);

if(checkSpecialCharacters((p+count)->className) == 0 || checkClass(p,(p+count)->className) == 1)

printf("Class name contains special character or already exists, please try again: ");

}while(checkSpecialCharacters((p+count)->className) == 0 || checkClass(p,(p+count)->className) == 1);

printf("Enter Class ID: ");

do{

fflush(stdin);

gets((p+count)->classID);

if(checkSpecialCharacters((p+count)->classID) == 0 || checkClassID(p, (p+count)->classID) == 1)

printf("\tClass ID contains special character or already exists, please try again: ");

}while(checkSpecialCharacters((p+count)->classID) == 0 || checkClassID(p, (p+count)->classID) == 1);

convertToCapital((p+count)->classID);

printf("Enter teacher's name: ");

do{

fflush(stdin);

gets((p+count)->teacherName);

if(checkSpecialCharacters((p+count)->teacherName) == 0 || checkNumber((p+count)->teacherName) == 1)

printf("\tPlease try again: ");

}while(checkSpecialCharacters((p+count)->teacherName) == 0 || checkNumber((p+count)->teacherName) == 1);

editName((p+count)->teacherName);

count++;

system("cls");

printf("There are %d class(es), do you want to add another class? ", count);

printf("\n 1. Yes / 2. No \n");

printf("Your choice is: ");

scanf("%d",&luachon);

}while(luachon == 1);

}

void enterStudentInfo(struct classs \*p) //Nhap thong tin sinh vien

{

char enterClassName[10], checkage[10];

int a, vt, choice;

printf("\nThe system has %d class(es), please choose a class you want to enter: ", count);

for(a = 0; a < count; a++){

printf ("\n\t%d. %s", a+1, (p+a)->className);

}

fflush(stdin);

printf("\n\nEnter class name: ");

do

{

gets(enterClassName);

fflush(stdin);

convertToCapital(enterClassName);

if(checkSpecialCharacters(enterClassName) == 0 || checkClass(p, enterClassName) == 0)

printf("\tClass name contains special characters or doesn't exist, please try again: ");

}while(checkSpecialCharacters(enterClassName) == 0 || checkClass(p, enterClassName) == 0);

do{

for(a = 0; a < count; a++){

if(strcmp((enterClassName),(p+a)->className) == 0){

system("cls");

printf("You are entering information for of class %s\n",(p+a)->className );

if((p+a)->numberOfStudents > 0){

printf(" Class %s has %d student(s)\n", (p+a)->className, (p+a)->numberOfStudents);

}

(p+a)->numberOfStudents++;

vt = (p+a)->numberOfStudents;

printf("\n ----- Information of student - [%d] ----- \n",(p+a)->numberOfStudents);

printf("\nStudent's name: ");

do{

fflush(stdin);

gets((p+a)->sv[vt].studentName);

if(checkSpecialCharacters((p+a)->sv[vt].studentName) == 0 || checkNumber((p+a)->sv[vt].studentName) == 1)

printf("Please try again: ");

}while(checkSpecialCharacters((p+a)->sv[vt].studentName) == 0 || checkNumber((p+a)->sv[vt].studentName) == 1);

editName((p+a)->sv[vt].studentName);

printf("Student's ID: ");

do{

gets((p+a)->sv[vt].studentID);

convertToCapital((p+a)->sv[vt].studentID);

if(checkSpecialCharacters((p+a)->sv[vt].studentID) == 0 )

printf("\tStudent ID contains special character please try again: ");

}while(checkSpecialCharacters((p+a)->sv[vt].studentID) == 0);

printf("Student's hometown: ");

do{

fflush(stdin);

gets((p+a)->sv[vt].hometown);

if(checkSpecialCharacters((p+a)->sv[vt].hometown) == 0 || checkNumber((p+a)->sv[vt].hometown) == 1){

printf("\tPlease try again: ");

}

}while(checkSpecialCharacters((p+a)->sv[vt].hometown) == 0 || checkNumber((p+a)->sv[vt].hometown) == 1);

editName((p+a)->sv[vt].hometown);

printf("Age: ");

do{

scanf("%d",&(p+a)->sv[vt].age);

gets(checkage);

if(checkNumber(checkage) == 0 || checkAge((p+a)->sv[vt].age) == 1)

printf("\tAge must be > 17 and < 30 and age is number, please try again: ");

}while(checkNumber(checkage) == 0 || checkAge((p+a)->sv[vt].age) == 1);

printf("Gender: ");

do{

printf("\n\tEnter < Male or Female>: ");

gets((p+a)->sv[vt].gender);

if(checkSpecialCharacters((p+a)->sv[vt].gender) == 0 || checkNumber((p+a)->sv[vt].gender) == 1){

printf("\tGender doesn't contains special character or number.Please try again: ");

fflush(stdin);

gets((p+a)->sv[vt].gender);

}

}while(checkSpecialCharacters((p+a)->sv[vt].gender) == 0);

editName((p+a)->sv[vt].gender);

printf("Room number: ");

do{

gets((p+a)->sv[vt].roomNumber);

fflush(stdin);

if(checkSpecialCharacters((p+a)->sv[vt].roomNumber) == 0)

printf("Room number contain special characters. Please try again: ");

}while(checkSpecialCharacters((p+a)->sv[vt].roomNumber) == 0);

convertToCapital((p+a)->sv[vt].roomNumber);

system("cls");

printf("\n-----Do you want enter information for next student ? -----");

printf("\n\t1. Continue enter information for class %s", (p+a)->className);

printf("\n\t2. Enter information for another class");

printf("\n\t3. Exit");

do{

printf("\nYour choice is: ");

scanf("%d",&choice);

if(choice == 2){

system("cls");

enterStudentInfo(p);

}

}while(choice < 0 || choice > 3);

}

}

}while(choice == 1);

}

void enterScore(struct classs \*p) // Nhap diem theo class

{

char enterClassName[10], nhapstudentName[30], checkDB[10], checkEL[10], checkALG2[10];

int a, k, vt, choice, checknumberOfStudents;

printf("\nThe system has %d class(es), please choose a class to enter: ", count);

for(a = 0; a < count; a++){

printf ("\n\t%d. %s", a+1, (p+a)->className);

}

fflush(stdin);

printf("\nEnter the class name: ");

do

{

gets(enterClassName);

fflush(stdin);

convertToCapital(enterClassName);

if(checkSpecialCharacters(enterClassName) == 0 || checkClass(p, enterClassName) == 0)

printf("Class name contains special characters or doesn't exist. Please try again: ");

}while(checkSpecialCharacters(enterClassName) == 0 || checkClass(p, enterClassName) == 0);

do{

fflush(stdin);

for(a = 0; a < count; a++){

if(stricmp((enterClassName),(p+a)->className) == 0){

checknumberOfStudents = (p+a)->numberOfStudents > 0 ? 1 : 0;

if(checknumberOfStudents == 1){

system("cls");

printf("\nClass %s has %d student(s)", (p+a)->className, (p+a)->numberOfStudents);

for(k = 1; k <= (p+a)->numberOfStudents; k++){

printf("\n \t%d. %s", k, (p+a)->sv[k].studentName);

}

}else break;

}

}

if(checknumberOfStudents == 1){

fflush(stdin);

printf("\nEnter student's name: ");

do

{

gets(nhapstudentName);

fflush(stdin);

editName(nhapstudentName);

if(checkSpecialCharacters(nhapstudentName) == 0 || checkStudent(p, enterClassName, nhapstudentName) == 0)

printf("Student name contains special characters or doesn't exist, please try again: ");

}while(checkSpecialCharacters(nhapstudentName) == 0 || checkStudent(p, enterClassName, nhapstudentName) == 0);

for(a = 0; a < count; a++){

if(stricmp((enterClassName),(p+a)->className) == 0){

for(k = 1; k <= (p+a)->numberOfStudents; k++){

if(strcmp((nhapstudentName),(p+a)->sv[k].studentName) == 0){

printf("\nDatabase: ");

do{

scanf("%f", &(p+a)->sv[k].DB);

gets(checkDB);

fflush(stdin);

if(checkNumber(checkDB) == 0 || checkScore((p+a)->sv[k].DB) == 1)

printf("\tScore must be > 0 va <= 10, please try again: ");

}while(checkNumber(checkDB) == 0 || checkScore((p+a)->sv[k].DB) == 1);

printf("English: ");

do{

scanf("%f", &(p+a)->sv[k].EL);

gets(checkEL);

fflush(stdin);

if(checkNumber(checkEL) == 0 || checkScore((p+a)->sv[k].EL) == 1)

printf("\tScore must be > 0 va <= 10, please try again: ");

}while(checkNumber(checkEL) == 0 || checkScore((p+a)->sv[k].EL) == 1);

printf("ALG2: ");

do{

scanf("%f", &(p+a)->sv[k].ALG2);

gets(checkALG2);

fflush(stdin);

if(checkNumber(checkALG2) == 0 || checkScore((p+a)->sv[k].ALG2) == 1)

printf("\tScore must be > 0 va <= 10, please try again: ");

}while(checkNumber(checkALG2) == 0 || checkScore((p+a)->sv[k].ALG2) == 1);

(p+a)->sv[k].AVG = averageScore((p+a)->sv[k].DB, (p+a)->sv[k].EL, (p+a)->sv[k].ALG2);

int result = setClassification((p+a)->sv[k].AVG);

if(result == 1){

(p+a)->sv[k].classification = (char\*)"Good";

}else if(result == 2){

(p+a)->sv[k].classification = (char\*)"Quitegood";

}else if(result == 3){

(p+a)->sv[k].classification = (char\*)"Normal";

}else{

(p+a)->sv[k].classification = (char\*)"Bad";

}

system("cls");

printf("\n----- Do you want enter score for next student? -----");

printf("\n\t1. Continue to enter score for class %s", (p+a)->className);

printf("\n\t2. Enter score of another class");

printf("\n\t3. Exit");

do{

printf("\nYour choice is: ");

scanf("%d",&choice);

if(choice == 2){

system("cls");

enterScore(p);

}

}while(choice < 0 || choice > 3);

}

}

}

}

}else{

printf("\nClass %s has no student, please enter the students.\n", enterClassName);

}

}while(choice == 1);

}

void displayClassInfo(struct classs \*p) // Xem thong tin class

{

int choice;

printf("\nThe system has %d class(es)\n", count);

fflush(stdin);

printf("\n%-20s %-30s %-30s %-30s", "Class ID", "Class name", "Number of students", "Teacher's name");

printf("--------------------------------------------------------------------------------------------------+");

for(i = 0; i < count; i++){

printf("\n%-20s %-30s %-30d %-30s ",(p+i)->classID, (p+i)->className, (p+i)->numberOfStudents, (p+i)->teacherName);

}

printf("-------------------------------------------------------------------------------------------------------+");

printf("\nDo you want enter another class? ");

printf("\n\t1. Yes / 2. No");

printf("\nYour choice is: ");

scanf("%d",&choice);

switch(choice)

{

case 1:

system("cls");

enterClass(p);

system("cls");

printf("------------------------------DISPLAY CLASS INFORMATION---------------------------------");

displayClassInfo(p);

break;

case 2:

system("cls");

displayInfoScreen();

break;

}

}

void displayStudentInfoByClass(struct classs \*p) //XEM SINH VIEN THEO class

{

char enterClassName[10];

int a, k, choice;

do{

printf ("\nPlease choose the class you want to display the information <enter name class>");

for(a = 0; a < count; a++){

printf ("\n\t%d. %s", a + 1, (p+a)->className);

}

printf ("\nEnter class name: ");

do{

fflush(stdin);

gets (enterClassName);

convertToCapital(enterClassName);

if(checkSpecialCharacters(enterClassName) == 0 || checkClass(p,enterClassName) == 0)

printf("\tClass name contains special characters or doesn't exist, please try again: ");

}while(checkSpecialCharacters(enterClassName) == 0 || checkClass(p,enterClassName) == 0);

for(k = 0; k < count; k++){

if (strcmp(enterClassName, (p+k)->className) == 0){

printf ("\nClass %s",(p+k)->className);

printf("\n");

printf("\n%-10s %-20s %-20s %-15s %-15s %-15s",

"StudentID", "Student name", "Room number", "Age", "Gender", "Hometown");

printf("\n+--------------------------------------------------------------------------------------------------+");

for(j = 1; j <= (p+k)->numberOfStudents; j++){

printf("\n%-10s %-20s %-20s %-15d %-15s %-15s\n",

(p+k)->sv[j].studentID, (p+k)->sv[j].studentName, (p+k)->sv[j].roomNumber, (p+k)->sv[j].age, (p+k)->sv[j].gender,(p+k)->sv[j].hometown );

}

printf("+---------------------------------------------------------------------------------------------------+");

}

}

printf("\n----- Do you want to display information of another class ? -----");

printf("\n\t1. Yes / 2. No");

printf("\nYour choice is: ");

scanf("%d",&choice);

system("cls");

}while(choice == 1);

}

void displayStudentScore(struct classs \*p) // Xem diem theo class

{

char enterClassName[10];

int a, k, choice;

do{

printf ("\nPlease choose the class you want to display score <Go name class>");

for(a = 0; a < count; a++){

printf ("\n\t %d. %s",a + 1, (p+a)->className);

}

printf ("\nEnter class name: ");

do{

fflush(stdin);

gets (enterClassName);

convertToCapital(enterClassName);

if(checkSpecialCharacters(enterClassName) == 0 || checkClass(p,enterClassName) == 0)

printf("Class name contains special characters or doesn't exist, please enter again: ");

}while(checkSpecialCharacters(enterClassName) == 0 || checkClass(p,enterClassName) == 0);

system("cls");

for(k = 0; k < count; k++){

if (strcmp(enterClassName, (p+k)->className) == 0){

system("cls");

printf ("\nClass %s",(p+k)->className);

printf("\n");

printf("\n%-10s %-15s %-15s %-15s %-20s %-20s %-20s",

"Student ID", "Student Name", "Database", "English", "ALG2", "AVG Score", "Classification");

printf("\n+-----------------------------------------------------------------------------------------------------------------+");

for(j = 1; j <= (p+k)->numberOfStudents; j++){

printf("\n%-10s %-15s %-15.2f %-15.2f %-20.2f %-20.2f %-20s\n",

(p+k)->sv[j].studentID, (p+k)->sv[j].studentName, (p+k)->sv[j].DB, (p+k)->sv[j].EL, (p+k)->sv[j].ALG2, (p+k)->sv[j].AVG, (p+k)->sv[j].classification);

}

printf("+-----------------------------------------------------------------------------------------------------------------+");

}

}

printf("\n----- Do you want to disply next class ? -----");

printf("\n1. Yes / 2. No");

printf("\nMoi chon: ");

scanf("%d",&choice);

system("cls");

}while(choice == 1);

}

void editClassInfo(struct classs \*p){

int choice;

char enterClassName[10];

char string[10];

do{

fflush(stdin);

printf ("\nPlease choose the class you want to edit <Enter class name>");

for(i = 0; i < count; i++){

printf ("\n \t%d. %s", i + 1, (p+i)->className);

}

printf ("\nEnter class name: ");

do{

fflush(stdin);

gets(enterClassName);

convertToCapital(enterClassName);

if(checkSpecialCharacters(enterClassName) == 0 || checkClass(p,enterClassName) == 0)

printf("Sorry, class name contains special characters or doesn't exist, please enter again: ");

}while(checkSpecialCharacters(enterClassName) == 0 || checkClass(p,enterClassName) == 0);

system("cls");

fflush(stdin);

printf("------ You are editting the information for class [%s] ------\n", enterClassName);

for(i = 0; i < count; i++){

if (strcmp(enterClassName, (p+i)->className) == 0){

printf ("\n\n Old name of teacher %s",(p+i)->teacherName);

printf("\nPlease enter new name of teacher: ");

do{

gets((p+i)->teacherName);

if(checkSpecialCharacters((p+i)->teacherName) == 0)

printf("Teacher's contains special character, please try again: ");

}while(checkSpecialCharacters((p+i)->teacherName) == 0);

editName((p+i)->teacherName);

}

}

printf("\n----- Do you want to edit the information of another class ? -----");

printf("\n1. Yes / 2. No");

printf("\nYour choice is: ");

scanf("%d",&choice);

system("cls");

}while(choice == 1);

}

void editStudentInfo(struct classs \*p) // Chinh sua thong tin SV

{

char enterClassName[10], nhapstudentName[30], checkage[10];

int a, k, vt, choice, checknumberOfStudents;

printf("\nThe system has %d class(es), please choose the class to edit: ", count);

for(a = 0; a < count; a++){

printf ("\n%d. %s", a+1, (p+a)->className);

}

fflush(stdin);

printf("\nEnter the class name: ");

do

{

gets(enterClassName);

fflush(stdin);

convertToCapital(enterClassName);

if(checkSpecialCharacters(enterClassName) == 0 || checkClass(p, enterClassName) == 0)

printf("\tClass name contains special characters or doesn't exist, please try again: ");

}while(checkSpecialCharacters(enterClassName) == 0 || checkClass(p, enterClassName) == 0);

do{

fflush(stdin);

for(a = 0; a < count; a++){

if(stricmp((enterClassName),(p+a)->className) == 0){

checknumberOfStudents = (p+a)->numberOfStudents > 0 ? 1 : 0;

if(checknumberOfStudents == 1){

system("cls");

printf("\nClass %s has %d student(s).", (p+a)->className, (p+a)->numberOfStudents);

for(k = 1; k <= (p+a)->numberOfStudents; k++){

printf("\n%d. %s", k, (p+a)->sv[k].studentName);

}

}else break;

}

}

if(checknumberOfStudents == 1){

fflush(stdin);

printf("\nEnter student's name you want to edit: ");

do

{

gets(nhapstudentName);

fflush(stdin);

editName(nhapstudentName);

if(checkSpecialCharacters(nhapstudentName) == 0 || checkStudent(p, enterClassName, nhapstudentName) == 0)

printf("\tStudent's name contain special characters, please try again: ");

}while(checkSpecialCharacters(nhapstudentName) == 0 || checkStudent(p, enterClassName, nhapstudentName) == 0);

for(a = 0; a < count; a++){

if(stricmp((enterClassName),(p+a)->className) == 0){

for(k = 1; k <= (p+a)->numberOfStudents; k++){

if(strcmp((nhapstudentName),(p+a)->sv[k].studentName) == 0){

printf("\nThe pre-data of student: %s", (p+a)->sv[k].studentName);

printf("\n%-10s %-20s %-20s %-15s %-15s %-15s",

"StudentID", "Student name", "Room number", "Age", "Gender", "Hometown");

printf("\n+---------------------------------------------------------------------------------------------------+");

printf("\n%-10s %-20s %-20s %-15d %-15s %-15s\n", (p+a)->sv[k].studentID, (p+a)->sv[k].studentName,

(p+a)->sv[k].roomNumber, (p+a)->sv[k].age, (p+a)->sv[k].gender,(p+a)->sv[k].hometown );

printf("+----------------------------------------------------------------------------------------------------+");

printf("\n");

printf("\nOld name: %s", (p+a)->sv[k].studentName);

fflush(stdin);

printf("\nNew name: ");

do{

fflush(stdin);

gets((p+a)->sv[k].studentName);

if(checkSpecialCharacters((p+a)->sv[k].studentName) == 0

|| checkNumber((p+a)->sv[k].studentName) == 1)

printf("\tStudent's name contains special characters, please try again: ");

}while(checkSpecialCharacters((p+a)->sv[k].studentName) == 0

|| checkNumber((p+a)->sv[k].studentName) == 1);

editName((p+a)->sv[k].studentName);

printf("Old hometown: %s", (p+a)->sv[k].hometown);

fflush(stdin);

printf("\nEnter new hometown: ");

do{

fflush(stdin);

gets((p+a)->sv[k].hometown);

if(checkSpecialCharacters((p+a)->sv[k].hometown) == 0 || checkNumber((p+a)->sv[k].hometown) == 1)

printf("\tHometown contains special characters, please try again: ");

}while(checkSpecialCharacters((p+a)->sv[k].hometown) == 0 || checkNumber((p+a)->sv[k].hometown) == 1);

editName((p+a)->sv[k].hometown);

printf("Age: %d", (p+a)->sv[k].age);

fflush(stdin);

printf("\nEnter new age: ");

do{

scanf("%d",&(p+a)->sv[k].age);

gets(checkage);

if(checkNumber(checkage) == 0 || checkAge((p+a)->sv[k].age) == 1)

printf("\tAge must be > 17 and < 30 and is digits, please try again: ");

}while(checkNumber(checkage) == 0 || checkAge((p+a)->sv[k].age) == 1);

fflush(stdin);

printf("Gender: %s", (p+a)->sv[k].gender);

printf("\nNew gender: ");

do{

printf("\n\tEnter <Male/Female>: ");

fflush(stdin);

gets((p+a)->sv[k].gender);

if(checkSpecialCharacters((p+a)->sv[k].gender) == 0){

printf("\tGender contain special characters, please try again: ");

}

}while(checkSpecialCharacters((p+a)->sv[k].gender) == 0);

editName((p+a)->sv[k].gender);

printf("Room number: %s", (p+a)->sv[k].roomNumber);

fflush(stdin);

printf("\nNew room number: ");

do{

gets((p+a)->sv[k].roomNumber);

fflush(stdin);

if(checkSpecialCharacters((p+a)->sv[k].roomNumber) == 0)

printf("\tRoom number contain special characters, please try again: ");

}while(checkSpecialCharacters((p+a)->sv[k].roomNumber) == 0);

convertToCapital((p+a)->sv[k].roomNumber);

printf("\n");

printf("\nThe updated-data of student: %s", (p+a)->sv[k].studentName);

printf("\n%-10s %-20s %-20s %-15s %-15s %-15s",

"Student ID", "Student name", "Room number", "Age", "Gender", "Hometown");

printf("\n+--------------------------------------------------------------------------------------------------+");

printf("\n%-10s %-20s %-20s %-15d %-15s %-15s\n", (p+a)->sv[k].studentID, (p+a)->sv[k].studentName,

(p+a)->sv[k].roomNumber, (p+a)->sv[k].age, (p+a)->sv[k].gender,(p+a)->sv[k].hometown );

printf("+---------------------------------------------------------------------------------------------------+");

printf("\n");

char string[10];

printf("\n----- Do you want to edit the information for next student? -----");

printf("\n\t1. Continue edit student info of class %s", (p+a)->className);

printf("\n\t2. Edit student info of another class");

printf("\n\t3. Exit");

do{

printf("\nYour choice is: ");

scanf("%d",&choice);

gets(string);

if(choice == 2){

system("cls");

enterScore(p);

}

}while(choice < 0 || choice > 3 || checkNumber(string) == 0);

}

}

}

}

}else{

printf("\nClass %s has no student, please enter the information of students.\n", enterClassName);

}

}while(choice == 1);

}

void editStudentScore(struct classs \*p) // Chinh sua diem SV

{

char enterClassName[10], enterStudentName[30], checkDB[10], checkEL[10], checkALG2[10];

int a, k, vt, choice, checknumberOfStudents;

printf("\nThe system has %d class(es), enter the class name you want to edit: ", count);

for(a = 0; a < count; a++){

printf ("\n\t%d. %s", a+1, (p+a)->className);

}

fflush(stdin);

printf("\nPlease enter class name: ");

do

{

gets(enterClassName);

fflush(stdin);

convertToCapital(enterClassName);

if(checkSpecialCharacters(enterClassName) == 0 || checkClass(p, enterClassName) == 0)

printf("Class name contain special characters or it doesn't exist, please try again: ");

}while(checkSpecialCharacters(enterClassName) == 0 || checkClass(p, enterClassName) == 0);

do{

fflush(stdin);

for(a = 0; a < count; a++){

if(stricmp((enterClassName),(p+a)->className) == 0){

checknumberOfStudents = (p+a)->numberOfStudents > 0 ? 1 : 0;

if(checknumberOfStudents == 1){

printf("\nClass %s has %d student(s)", (p+a)->className, (p+a)->numberOfStudents);

for(k = 1; k <= (p+a)->numberOfStudents; k++){

printf("\n%d. %s", k, (p+a)->sv[k].studentName);

}

}else break;

}

}

if(checknumberOfStudents == 1){

fflush(stdin);

printf("\nEnter student's name you want to edit: ");

do

{

gets(enterStudentName);

fflush(stdin);

editName(enterStudentName);

if(checkSpecialCharacters(enterStudentName) == 0 || checkStudent(p, enterClassName, enterStudentName) == 0)

printf("Student name contain special characters or doesn't exist, please try again: ");

}while(checkSpecialCharacters(enterStudentName) == 0 || checkStudent(p, enterClassName, enterStudentName) == 0);

for(a = 0; a < count; a++){

if(stricmp((enterClassName),(p+a)->className) == 0){

for(k = 1; k <= (p+a)->numberOfStudents; k++){

if(strcmp((enterStudentName),(p+a)->sv[k].studentName) == 0){

printf("\nThe pre-data of student: %s", (p+a)->sv[k].studentName);

printf("\n%-10s %-15s %-15s %-15s %-20s %-20s %-20s",

"StudentID", "Student Name", "Database", "English", "ALG2", "AVG Score", "Classification");

printf("\n+----------------------------------------------------------------------------------------------------------------------+");

printf("\n%-10s %-15s %-15.2f %-15.2f %-20.2f %-20.2f %-20s\n",

(p+a)->sv[k].studentID, (p+a)->sv[k].studentName, (p+a)->sv[k].DB, (p+a)->sv[k].EL,

(p+a)->sv[k].ALG2, (p+a)->sv[k].AVG, (p+a)->sv[k].classification);

printf("+-----------------------------------------------------------------------------------------------------------------------+");

printf("\n");

printf("Pre-Database score: %.2f", (p+a)->sv[k].DB);

printf("\nNew Database score: ");

do{

scanf("%f", &(p+a)->sv[k].DB);

gets(checkDB);

fflush(stdin);

if(checkNumber(checkDB) == 0 || checkScore((p+a)->sv[k].DB) == 1)

printf("Score must be > 0 and <= 10. Please try again: ");

}while(checkNumber(checkDB) == 0 || checkScore((p+a)->sv[k].DB) == 1);

printf("Pre-English score: %.2f", (p+a)->sv[k].EL);

printf("\nNew English score: ");

do{

scanf("%f", &(p+a)->sv[k].EL);

gets(checkEL);

fflush(stdin);

if(checkNumber(checkEL) == 0 || checkScore((p+a)->sv[k].EL) == 1)

printf("Score must be > 0 and <= 10. Please try again: ");

}while(checkNumber(checkEL) == 0 || checkScore((p+a)->sv[k].EL) == 1);

printf("Pre-ALG2 score: %.2f", (p+a)->sv[k].ALG2);

printf("\nNew ALG2 score: ");

do{

scanf("%f", &(p+a)->sv[k].ALG2);

gets(checkALG2);

fflush(stdin);

if(checkNumber(checkALG2) == 0 || checkScore((p+a)->sv[k].ALG2) == 1)

printf("Score must be > 0 and <= 10. Please try again: ");

}while(checkNumber(checkALG2) == 0 || checkScore((p+a)->sv[k].ALG2) == 1);

(p+a)->sv[k].AVG = averageScore((p+a)->sv[k].DB, (p+a)->sv[k].EL, (p+a)->sv[k].ALG2);

int result = setClassification((p+a)->sv[k].AVG);

if(result == 1){

(p+a)->sv[k].classification = (char\*)"Good";

}else if(result == 2){

(p+a)->sv[k].classification = (char\*)"Quite good";

}else if(result == 3){

(p+a)->sv[k].classification = (char\*)"Normal";

}else{

(p+a)->sv[k].classification = (char\*)"Bad";

}

printf("\n");

printf("\nThe updated-data of student: %s", (p+a)->sv[k].studentName);

printf("\n%-10s %-25s %-15s %-15s %-20s %-20s %-20s",

"Student ID", "Student Name", "Database", "English", "ALG2", "AVG Score", "Classification");

printf("\n+----------------------------------------------------------------------------------------------------------------------+");

printf("\n%-10s %-25s %-15.2f %-15.2f %-20.2f %-20.2f %-20s\n",

(p+a)->sv[k].studentID, (p+a)->sv[k].studentName, (p+a)->sv[k].DB, (p+a)->sv[k].EL,

(p+a)->sv[k].ALG2, (p+a)->sv[k].AVG, (p+a)->sv[k].classification);

printf("+------------------------------------------------------------------------------------------------------------------------+");

printf("\n");

printf("\n----- Do you want to edit score for next student ? -----");

printf("\n\t1. Continue to edit student score of class %s", (p+a)->className);

printf("\n\t2. Edit student score of another class");

printf("\n\t3. Exit");

char string[10];

do{

printf("\nYour choice is: ");

scanf("%d",&choice);

gets(string);

if(choice == 2){

system("cls");

enterScore(p);

}

}while(choice < 0 || choice > 3 || checkNumber(string) == 0);

}

}

}

}

}else{

printf("\nClass %s has no student, please enter the information of students.\n", enterClassName);

}

}while(choice == 1);

}

void searchStudentByClassification(struct classs \*p){

char enterClassification[50];

int choice;

char string[10];

do{

fflush(stdin);

printf("\nThere are 4 kind of classification: ");

printf("\n\t1. Good");

printf("\n\t2. Quite good");

printf("\n\t3. Nomal");

printf("\n\t4. Bad");

printf("\nWhat kind of classification do you want to search: ");

do{

gets(enterClassification);

if(checkSpecialCharacters(enterClassification) == 0)

printf("Classification contain special characters. Please try again: ");

}while(checkSpecialCharacters(enterClassification) == 0);

editName(enterClassification);

int checkSearch = 0;

printf("\n%-20s %-15s %-15s %-15s %-20s %-20s %-20s",

"StudentID", "Student's name", "Database", "English", "ALG2", "AVG Score", "Classification");

printf("\n+---------------------------------------------------------------------------------------------------------------+");

for(i = 0; i < count; i++){

for(j = 1; j <= (p+i)->numberOfStudents; j++ ){

if(strcmp(enterClassification, (p+i)->sv[j].classification) == 0){

checkSearch++;

}

}

}

if(checkSearch <= 0){

printf("\nThe result is not match!\n");

}else{

for(i = 0; i < count; i++){

for(j = 1; j <= (p+i)->numberOfStudents; j++ ){

if(strcmp(enterClassification, (p+i)->sv[j].classification) == 0){

printf("\n%-20s %-15s %-15.2f %-15.2f %-20.2f %-20.2f %-20s\n",

(p+i)->sv[j].studentID, (p+i)->sv[j].studentName, (p+i)->sv[j].DB, (p+i)->sv[j].EL,

(p+i)->sv[j].ALG2, (p+i)->sv[j].AVG, (p+i)->sv[j].classification);

}

}

}

}

printf("+--------------------------------------------------------------------------------------------------------------+");

printf("\nContinue to search?");

printf("\n\t 1. Yes - 2. No");

printf("\nYour choice is: ");

scanf("%d",&choice);

gets(string);

system("cls");

fflush(stdin);

}while(choice == 1 || checkNumber(string) == 0);

}

void searchStudentByHometown(struct classs \*p){

char enterHometown[50];

int choice;

char string[10];

do{

fflush(stdin);

printf("\nEnter hometown you want to search: ");

do{

gets(enterHometown);

if(checkSpecialCharacters(enterHometown) == 0)

printf("Hometown contain special characters. Please try again: ");

}while(checkSpecialCharacters(enterHometown) == 0);

editName(enterHometown);

int checkSearch = 0;

printf("\n%-20s %-15s %-15s %-15s %-15s %-20s %-20s",

"StudentID", "Student's name", "Age", "Gender", "Room number", "Hometown", "Class'name'");

printf("\n+------------------------------------------------------------------------------------------------------+");

for(i = 0; i < count; i++){

fflush(stdin);

for(j = 1; j <= (p+i)->numberOfStudents; j++){

if(strcmp((p+i)->sv[j].hometown, enterHometown) == 0)

{

checkSearch++;

}

}

}

if(checkSearch <= 0){

printf("\nThe result is not match!\n");

}else{

for(i = 0; i < count; i++){

fflush(stdin);

for(j = 1; j <= (p+i)->numberOfStudents; j++){

if(strcmp((p+i)->sv[j].hometown, enterHometown) == 0)

{

printf("\n%-20s %-15s %-15d %-15s %-15s %-20s %-20s\n",

(p+i)->sv[j].studentID, (p+i)->sv[j].studentName, (p+i)->sv[j].age, (p+i)->sv[j].gender,

(p+i)->sv[j].roomNumber, (p+i)->sv[j].hometown, (p+i)->className);

}

}

}

}

printf("+-------------------------------------------------------------------------------------------------------+");

printf("\nContinue to search?");

printf("\n\t 1. Yes - 2. No");

printf("\nYour choice is: ");

scanf("%d",&choice);

gets(string);

system("cls");

fflush(stdin);

}while(choice == 1 || checkNumber(string) == 0);

}

void searchStudentByAge(struct classs \*p) // Tìm kiem Sv theo age

{

int inputAge, choice;

char string[100];

do{

fflush(stdin);

printf("\nEnter age you want to search: ");

do

{

scanf("%d",&inputAge);

gets(string);

fflush(stdin);

if(checkNumber(string)==0)

printf("\tPlease try again: ");

}while(checkNumber(string)==0);

int checkSearch = 0;

printf("\n%-20s %-15s %-15s %-15s %-15s %-20s %-20s",

"StudentID", "Student's name", "Age", "Gender", "Room number", "Hometown", "Class'name");

printf("\n+-------------------------------------------------------------------------------------------------------+");

for(i = 0; i < count; i++){

fflush(stdin);

for(j = 1; j <= (p+i)->numberOfStudents; j++){

if(inputAge == (p+i)->sv[j].age){

checkSearch ++;

}

}

}

if(checkSearch <= 0){

printf("\nThe result is not match!\n");

}else{

for(i = 0; i < count; i++){

fflush(stdin);

for(j = 1; j <= (p+i)->numberOfStudents; j++){

if(inputAge == (p+i)->sv[j].age){

printf("\n%-20s %-15s %-15d %-15s %-20s %-20s\n",

(p+i)->sv[j].studentID, (p+i)->sv[j].studentName, (p+i)->sv[j].age, (p+i)->sv[j].gender,

(p+i)->sv[j].roomNumber, (p+i)->sv[j].hometown, (p+i)->className);

}

}

}

}

printf("+----------------------------------------------------------------------------------------------------------+");

printf("\nContinue to search?");

printf("\n\t 1. Yes - 2. No");

printf("\nYour choice is: ");

scanf("%d",&choice);

gets(string);

system("cls");

fflush(stdin);

}while(choice == 1 || checkNumber(string) == 0);

}

void searchStudentByRoomNumber(struct classs \*p) //Tìm kiem Sv theo so phong

{

char roomNumber[10];

int choice;

char string[10];

do{

fflush(stdin);

do{

printf("\nEnter the room number you want to search: ");

gets(roomNumber);

if(checkSpecialCharacters(roomNumber) == 0)

printf("Oops ");

}while(checkSpecialCharacters(roomNumber) == 0);

convertToCapital(roomNumber);

int checkSearch = 0;

fflush(stdin);

printf("\n%-20s %-15s %-15s %-15s %-15s %-20s %-20s",

"StudentID", "Student Name", "Age", "Gender", "Room Number", "Hometown", "Class");

printf("\n+-----------------------------------------------------------------------------------+");

for(i = 0; i < count; i++){

fflush(stdin);

for(j = 1; j <= (p+i)->numberOfStudents; j++){

if(strcmp((p+i)->sv[j].roomNumber, roomNumber) == 0)

{

checkSearch ++;

}

}

}

for(i = 0; i < count; i++){

if(checkSearch <= 0){

printf("\nThe result is not match!\n");

}else{

for(j = 1; j <= (p+i)->numberOfStudents; j++){

if(strcmp((p+i)->sv[j].roomNumber, roomNumber) == 0)

{

printf("\n%-20s %-15s %-15d %-15s %-15s %-20s %-20s\n",

(p+i)->sv[j].studentID, (p+i)->sv[j].studentName, (p+i)->sv[j].age, (p+i)->sv[j].gender,

(p+i)->sv[j].roomNumber, (p+i)->sv[j].hometown, (p+i)->className);

}

}

}

}

printf("+----------------------------------------------------------------------------------------+");

printf("\nContinue to search?");

printf("\n\t 1. Yes - 2. No");

printf("\nYour choice is: ");

scanf("%d",&choice);

gets(string);

system("cls");

fflush(stdin);

}while(choice == 1 || checkNumber(string)==0);

}

void searchStudentByGender(struct classs \*p) //Tìm kiem Sv theo so phong

{

char gender[15];

int choice;

char string[10];

do{

fflush(stdin);

do{

printf("\nEnter <Male/Female>: ");

gets(gender);

if(checkSpecialCharacters(gender) == 0)

printf("Please try again: ");

}while(checkSpecialCharacters(gender) == 0);

editName(gender);

int checkSearch = 0;

fflush(stdin);

printf("\n%-20s %-15s %-15s %-15s %-15s %-20s %-20s",

"Student ID", "Student's name", "Age", "Gender", "Room number", "Hometown", "Class");

printf("\n+-----------------------------------------------------------------------------------+");

for(i = 0; i < count; i++){

fflush(stdin);

for(j = 1; j <= (p+i)->numberOfStudents; j++){

if(strcmp((p+i)->sv[j].gender, gender) == 0)

{

checkSearch++;

}

}

}

if(checkSearch <= 0){

printf("\nThe reult is not match!\n");

}else{

for(i = 0; i < count; i++){

fflush(stdin);

for(j = 1; j <= (p+i)->numberOfStudents; j++){

if(strcmp((p+i)->sv[j].gender, gender) == 0)

{

printf("\n%-20s %-15s %-15d %-15s %-15s %-20s %-20s\n",

(p+i)->sv[j].studentID, (p+i)->sv[j].studentName, (p+i)->sv[j].age, (p+i)->sv[j].gender,

(p+i)->sv[j].roomNumber, (p+i)->sv[j].hometown, (p+i)->className);

}

}

}

}

printf("+--------------------------------------------------------------------------------------+");

printf("\nContinue to search?");

printf("\n\t 1. Yes - 2. No");

printf("\nYour choice is: ");

scanf("%d",&choice);

gets(string);

system("cls");

fflush(stdin);

}while(choice == 1 || checkNumber(string) == 0);

}

void continueToEnterInfo()//Tiep tuc

{

int choice;

printf("\n--------------------------(1).Continue or (2) Exit------------------------------");

do{

printf("\nContinue? ");

scanf("%d",&choice);

}while(choice < 1 || choice > 2);

if(choice == 1){

system("cls");

enterInformation();

}else{

system("cls");

printf("\nAlready exited the program.....");

exit(0);

}

}

void continueToDisplayInfo()//Tiep tuc

{

int choice;

printf("\n--------------------------(1).Continue or (2).Exit------------------------------");

do{

printf("\nContinue ? ");

scanf("%d",&choice);

}while(choice < 1 || choice > 2);

if(choice == 1){

system("cls");

displayInfoScreen();

}else{

system("cls");

printf("\nAlready exited the program.....");

exit(0);

}

}

void continueToEdit()//Continue

{

int choice;

printf("\n--------------------------(1).Continue or (2) Exit------------------------------");

do{

printf("\nContinue? ");

scanf("%d",&choice);

}while(choice < 1 || choice > 2);

if(choice == 1){

system("cls");

editInfoScreen();

}else{

system("cls");

printf("\nAlready exited the program.....");

exit(0);

}

}

void continueToSearch()//Continue

{

int choice;

char string[10];

printf("\n--------------------------(1).Continue or (2) Exit------------------------------");

do{

printf("\nContinue ? ");

scanf("%d",&choice);

gets(string);

}while(choice < 1 || choice > 2 || checkNumber(string) == 0);

if(choice == 1){

system("cls");

searchInfoScreen();

}else{

system("cls");

printf("\nAlready exited the program.....");

exit(0);

}

}

//Thoat chuong trinh

void exitTheProgram()

{

int choice;

char string[10];

printf("\nAre you sure you want to exit the program?");

printf("\n1.Yes");

printf("\n2.No");

do

{

printf("\nYour choice is: ");

scanf("%d",&choice);

gets(string);

}while(choice < 1 || choice > 2 || checkNumber(string) == 0);

if(choice == 1)

{

system("cls");

printf("\n Already exited the program.....");

printf("\n-------------------------------------------------------------------------------");

exit(0);

}

else{

system("cls");

homeScreen();

}

}

void enterInformation(){

struct classs \*p;

p = &lp[0];

int choice;

char string[100];

printf("\n|\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*|INFORMATION ENTRY SYSTEM |\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*|");

printf("\n");

printf("\n 1. Enter information of class");

printf("\n 2. Enter the personal information of student");

printf("\n 3. Enter score of student");

printf("\n 4. Back to home");

printf("\n 5. Exit the program");

printf("\n");

printf("\n|\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*|");

printf("\nYour choice is: ");

do{

scanf("%d",&choice);

gets(string);

if(choice < 1 || choice > 5 || checkNumber(string) == 0)

printf("Your choice is: ");

}while(choice < 1 || choice > 5 || checkNumber(string) == 0);

switch(choice)

{

case 1:

system ("cls");

printf("\n-----------------------------------ENTER CLASS INFORMATION-------------------------------------");

enterClass(p);

continueToEnterInfo();

break;

case 2:

system ("cls");

printf("\n-------------------------------ENTER PERSONAL INFORMATION OF STUDENT-----------------------------------");

if(count <= 0){

printf("\nThe system doesn't have any class yet, please enter the class.");

enterClass(p);

system("cls");

enterStudentInfo(p);

}else{

enterStudentInfo(p);

}

continueToEnterInfo();

break;

case 3:

system ("cls");

printf("\n-------------------------------ENTER SCORE OF STUDENT-----------------------------------");

if(count <= 0){

printf("\nThe system doesn't have any class yet, please enter the class.");

enterClass(p);

system("cls");

enterStudentInfo(p);

system("cls");

enterScore(p);

}else{

enterScore(p);

}

continueToEnterInfo();

break;

case 4:

system ("cls");

homeScreen();

break;

case 5:

system ("cls");

printf("\n-------------------------------EXIT THE PROGRAM-------------------------------");

exitTheProgram();

break;

}

}

void displayInfoScreen(){

struct classs \*p;

p = &lp[0];

int choice;

char string[100];

printf("\n|\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*| DISPLAY INFORMATION SYSTEM |\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*|");

printf("\n");

printf("\n 1. Display information of class");

printf("\n 2. Display information of student in classes");

printf("\n 3. Display score and classification of student");

printf("\n 4. Back to home");

printf("\n 5. Exit the program");

printf("\n");

printf("\n|\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*|");

printf("\nYour choice: ");

do{

scanf("%d",&choice);

gets(string);

if(choice < 1 || choice > 5 || checkNumber(string) == 0)

printf("Your choice is : ");

}while(choice < 1 || choice > 5 || checkNumber(string) == 0);

switch(choice)

{

case 1:

system ("cls");

printf("\n------------------------------DISPLAY THE CLASS INFORMATION ---------------------------------");

if(count <= 0){

printf("\nThe system doesn't have any class yet, please enter the class.");

enterClass(p);

}else{

displayClassInfo(p);

}

continueToDisplayInfo();

break;

case 2:

system ("cls");

printf("\n-------------------DISPLAY STUDENT INFO IN CLASS----------------------------");

if(count <= 0){

printf("\nThe system doesn't have any class yet, please enter the class.");

enterClass(p);

system("cls");

enterStudentInfo(p);

system("cls");

displayStudentInfoByClass(p);

}else{

displayStudentInfoByClass(p);

}

continueToDisplayInfo();

break;

case 3:

system ("cls");

printf("\n---------------------------------DISPLAY SCORE OF STUDENT IN CLASS--------------------------------");

if(count <= 0){

printf("\nThe system doesn't have any class yet, please enter the class.");

enterClass(p);

system("cls");

enterStudentInfo(p);

system("cls");

enterScore(p);

system("cls");

displayStudentScore(p);

}else{

displayStudentScore(p);

}

continueToDisplayInfo();

break;

case 4:

system ("cls");

homeScreen();

break;

case 5:

system ("cls");

printf("\n-------------------------------EXIT THE PROGRAM-------------------------------");

exitTheProgram();

break;

}

}

void editInfoScreen(){

struct classs \*p;

p = &lp[0];

int choice, option;

char string[100];

printf("\n|\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*| INFORMATION EDITING SYSTEM |\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*|");

printf("\n");

printf("\n 1. Edit the information of class");

printf("\n 2. Edit the information of student");

printf("\n 3. Edit score of student ");

printf("\n 4. Back to home");

printf("\n 5. Exit the program");

printf("\n");

printf("\n|\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*|");

printf("\nYour choice is: ");

do{

scanf("%d",&choice);

gets(string);

if(choice < 1 || choice > 5 || checkNumber(string) == 0)

printf("Your choice is: ");

}while(choice < 1 || choice > 5 || checkNumber(string) == 0);

switch(choice)

{

case 1:

system ("cls");

printf("\n--------------------------EDIT INFORMATION OF CLASS-------------------------------");

if(count <= 0){

printf("\nThe system doesn't have any class yet, please enter the class.");

system("cls");

editInfoScreen();

}else{

editClassInfo(p);

continueToEdit();

}

break;

case 2:

system ("cls");

printf("\n-----------------------EDIT INFORMATION OF STUDENT----------------------------");

if(count <= 0){

printf("\nThe system doesn't have any class yet, please enter the class.");

system("cls");

editInfoScreen();

}else{

editStudentInfo(p);

continueToEdit();

}

break;

case 3:

system ("cls");

printf("\n-------------------------EDIT SCORE OF STUDENT-----------------------------");

if(count <= 0){

printf("\nThe system doesn't have any class yet, please enter the class.");

system("cls");

editInfoScreen();

}else{

editStudentScore(p);

continueToEdit();

}

break;

case 4:

system ("cls");

homeScreen();

break;

case 5:

system ("cls");

printf("\n-------------------------------EXIT THE PROGRAM-------------------------------");

exitTheProgram();

break;

}

}

void searchInfoScreen(){

struct classs \*p;

p = &lp[0];

int choice;

char string[100];

printf("\n|\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*| INFORMATION SEARCH SYSTEM |\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*|");

printf("\n");

printf("\n 1. Search by classification");

printf("\n 2. Search by hometown");

printf("\n 3. Search by gender");

printf("\n 4. Search by room's number");

printf("\n 5. Search by age");

printf("\n 6. Back to home");

printf("\n 7. Exit the program");

printf("\n");

printf("\n|\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*|");

printf("\nYour choice is: ");

do{

scanf("%d",&choice);

gets(string);

if(choice < 1 || choice > 7 || checkNumber(string) == 0)

printf("Please choose again: ");

}while(choice < 1 || choice > 7 || checkNumber(string) == 0);

switch(choice)

{

case 1:

system ("cls");

printf("\n----------------------SEARCH STUDENT BY CLASSIFICATION--------------------------");

if(count <= 0){

printf("\nThe system doesn't have any class yet, please enter the class.");

enterClass(p);

system("cls");

enterStudentInfo(p);

system("cls");

enterScore(p);

system("cls");

searchStudentByClassification(p);

fflush(stdin);

}else{

searchStudentByClassification(p);

}

continueToSearch();

break;

case 2:

system ("cls");

printf("\n--------------------------SEARCH STUDENT BY HOMETOWN-----------------------------");

if(count <= 0){

printf("\nThe system doesn't have any class yet, please enter the class.");

enterClass(p);

system("cls");

enterStudentInfo(p);

system("cls");

enterScore(p);

system("cls");

searchStudentByHometown(p);

fflush(stdin);

}else{

searchStudentByHometown(p);

}

continueToSearch();

break;

case 3:

system ("cls");

printf("\n------------------------SEARCH STUDENT BY GENDER-----------------------------");

if(count <= 0){

printf("\nThe system doesn't have any class yet, please enter the class.");

enterClass(p);

system("cls");

enterStudentInfo(p);

system("cls");

searchStudentByGender(p);

fflush(stdin);

}else{

searchStudentByGender(p);

}

continueToSearch();

break;

case 4:

system ("cls");

printf("\n------------------------SEARCH STUDENT BY ROOM NUMBER------------------------------");

if(count <= 0){

printf("\nThe system doesn't have any class yet, please enter the class.");

enterClass(p);

system("cls");

enterStudentInfo(p);

system("cls");

fflush(stdin);

searchStudentByRoomNumber(p);

}else{

searchStudentByRoomNumber(p);

}

continueToSearch();

break;

case 5:

system ("cls");

printf("\n---------------------------SEARCH STUDENT BY AGE--------------------------------");

if(count <= 0){

printf("\nThe system doesn't have any class yet, please enter the class.");

enterClass(p);

system("cls");

enterStudentInfo(p);

system("cls");

fflush(stdin);

searchStudentByAge(p);

}else{

searchStudentByAge(p);

}

continueToSearch();

break;

case 6:

system ("cls");

homeScreen();

break;

case 7:

system ("cls");

printf("\n-------------------------------EXIT THE PROGRAM-------------------------------");

exitTheProgram();

break;

}

}

void homeScreen() //Man hinh chinh

{

struct classs \*p;

p = &lp[0];

int choice;

char string[100];

printf("\n|\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*|----------------------------|\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*|");

printf("\n|\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*| STUDENT MANAGEMENT SYSTEM |\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*|");

printf("\n|\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*|----------------------------|\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*|");

printf("\n=====================================MENU======================================");

printf("\n");

printf("\n 1. Enter information");

printf("\n 2. Display information");

printf("\n 3. Edit information");

printf("\n 4. Search information");

printf("\n 5. Exit The Program");

printf("\n");

printf("\n===============================================================================");

printf("\nYour choice is: ");

do{

scanf("%d",&choice);

gets(string);

if(choice < 1 || choice > 5 || checkNumber(string) == 0)

printf("Please choose again: ");

}while(choice < 1 || choice > 5 || checkNumber(string) == 0);

switch(choice)

{

case 1:

system ("cls");

enterInformation();

break;

case 2:

system ("cls");

displayInfoScreen();

break;

case 3:

system ("cls");

editInfoScreen();

break;

case 4:

system ("cls");

searchInfoScreen();

break;

case 5:

system ("cls");

printf("\n-------------------------------EXIT THE PROGRAM------------------------------");

exitTheProgram();

break;

}

}

int main(){

struct classs \*p;

homeScreen();

}