//Soliman, Sean

//Class - 439 Sp 2018

//Using Structures

/\*

Program that uses a defined structure and structure array

\*/

// Using Structures.cpp : main project file.

#include "stdafx.h"

#include <iostream>

//include structure header file

#include "myStruct.h"

using namespace System;

using namespace std;

/\*

This doesn't work... how do I get this to work?

int x;

struct Student students[x];

\*/

void calculateAvg(struct Student students[3]);

int main()

{

/\*

//prompt for # of students for array structure

printf("Enter the ammount of students");

scanf("%d",x);

\*/

//structure array

struct Student students[3];

system("color f0");

for(int i=0; i<3; i++){

//prompt for student name and store into structure

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

printf("\nEnter students first name: ");

scanf("%s",students[i].fName);

//prompt for student name and store into structure

printf("\nEnter students last name: ");

scanf("%s",students[i].lName);

//prompt for student name and store into structure

for(int j=0;j<3;j++){

printf("\nEnter student's grade %d: ",j+1);

scanf("%f",&students[i].stuGrade[j]);

}

//calculate and store student avg grade

students[i].avgGrade = ((students[i].stuGrade[0] + students[i].stuGrade[1] + students[i].stuGrade[2])/3);

}

system("cls");

//pass structure array to function calculateAvg

calculateAvg(students);

printf("\n\n");

system("pause");

return 0;

}

void calculateAvg(struct Student students[3]){

printf("Results");

for(int i=0; i<3; i++){

printf("\n\n%s\n",students[i].fName);

printf("%s\n",students[i].lName);

printf("%.02f\n",students[i].avgGrade);

printf("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

}

}



