CIS 1.5 Spring 2007 Lab 2, Part 2

Instructions

- This is the second part of the second homework/lab assignment for CIS 1.5. Read the first part of the assignment for complete instructions, due date and submission details.

1 Before you start

- Get the "make records" example from Professor Parsons (or if you are at home, download it from the class web page. It is one of the examples for Unit II).

- Make sure you can run the program.

  (0 points)

2 Creating and printing records

- Write a program that combines the functionality of the two example programs we looked at in class.

- First it should prompt the user to enter patient data, write this data to a file, and then close the file.

- Then it should print out all the data in the file.

  (1 point)

- Save your working program as **hw2-4.cpp**.

3 Allowing the user to choose what to do

- Modify the program so that the first thing that it does is to as the user.

  ```
  Enter 1 to create a new file of patient records
  Enter 2 to print out patient records
  ```

  If the user enters 1, the program asks for patient data and writes it to a file. If the user enters 2, the program just prints out all the data in the file.

  (2 points)

- Save your working program as **hw2-5.cpp**.

4 Adding new options

- Modify the program to add two new options for the user.

- If the user enters 3, the program asks for a patient ID and displays the information for that patient.

  (1 point)

- If the user enters 4, the program asks for patient data and *adds it to the end of the existing file of patient data*

  Hint: You can write data to the end of a file if you open it using, for example:

  ```
  ofstream outfile(``patient.dat'', ios::ate
  ```

  (1 point)

- Save your working program as **hw2-6.cpp**.

5 Extra credit question

- Re-structure your program so that it has the following four methods: `printFile()` which is called when the user enters 1, `createFIle`, which is called when the user enters 2, `locateRecord`, which is called when the user enters 3, and `addRecord`, which is called when the user enters 4.

  (1 point)

- Save your working program as **hw2-7.cpp**.