**appointment.c**

**main function**

Calls functions according to the user’s selections.

Gets user information.

Prints out file information.

**readline.c**

**read\_line function**

Primary input function used.

Ignores white-space characters like tab, space, newline.

When called requires a char pointer (could be string), and maximum length.

And ignores the rest of the characters after the maximum length exceeded.

Does not return any value it is a void function.

**teacher.c**

**find\_office\_hour function**

Used to get information about the selected ID.

If the ID is found it returns the ID value.

If it can’t open data file, it returns FIND\_FILE\_FAIL which is defined -20.

If it can’t find the ID it returns FIND\_NOT\_FOUND.

If the requested ID is out of range, it returns FIND\_RANGE\_FAIL.

**store\_office\_hour function**

Rewinds the file to the start.

Writes the information stored in memory to the data file.

closes file.

**insert\_office\_hour function**

Called with teacher name.

Checks if the office hour exists.

Asks for failure options.

If successful.

It asks proper information for the new office hour.

May call store\_office\_hour or update\_office\_hour.

**update\_office\_hour function.**

Called with teacher name and an integer pointer.

If the address that pointer directs to NULL (predefined) it asks user for ID, then calls itself again.

If the address that pointer directs to is not NULL.

Uses the ID to update information.

**print\_office\_hour function**

Called with teacher name and a Boolean value.

Boolean helps the program to show available hours to students while showing all hours to teachers.

**student.c**

**create\_appointment function**

Called with student name and teacher name.

Checks if the appointment.txt file exists before anything.

If it doesn’t exist creates it.

And calls print\_office\_hour with IsStudent true.

And if student picks an office hour it stores it inside the appointment.txt file.