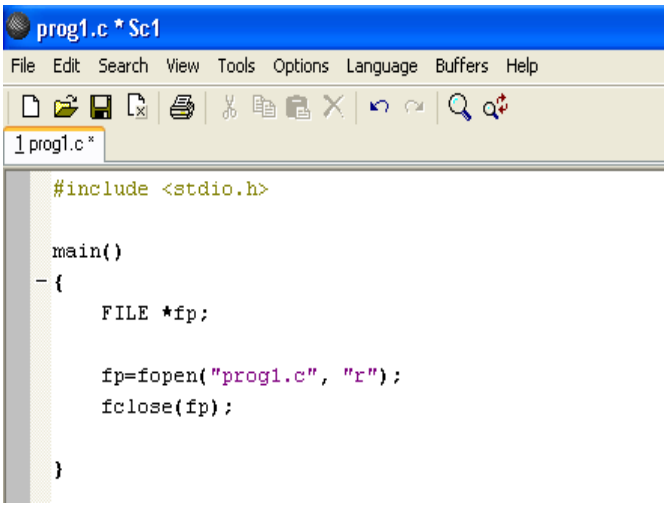
Programming with persistent data

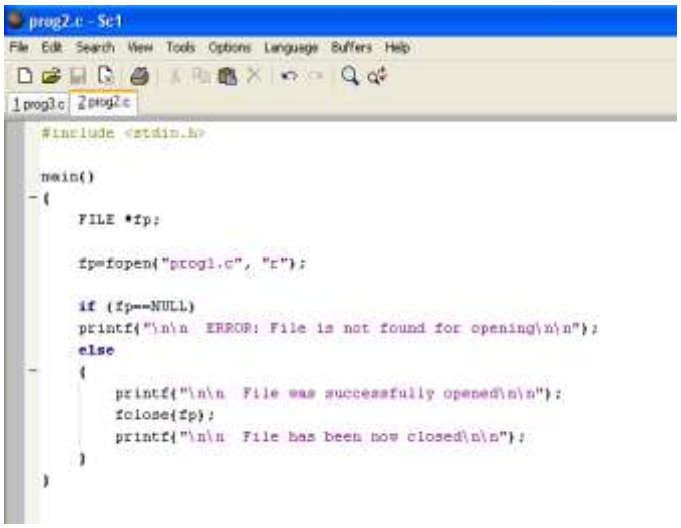
Lab 1

For today's lab we will just introduce the idea of opening & closing files on a hard disk.



You should open the bcc5.5 SCI editor and manually key in the following short program, "prog1.c". (*NB: comment each line of the code saying what it does for the program*).

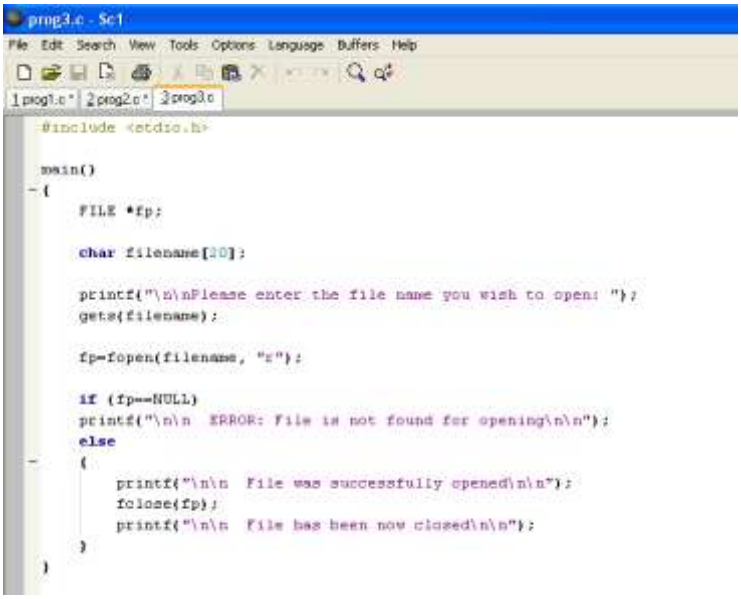
Compile it and then execute it, ideally from the DOS prompt.



Next: you are going to re-save the above program as "prog2.c". Modify this new version to include error handling on file opening/closing. (*NB: again comment each additional line of the code*).

Again compile & executed this version and examine the results.

Now, change the fp=fopen("prog1.c", "r"); statement to fp=fopen("apple.c", "r"); then recompile and execute. Can you explain the result?



Finally, re-save the last version as "prog3.c" and modify it to the following, ensuring again that you comment the changes.

Likewise, run it from the DOS prompt and examine its operation against different file names