

Q2.

We created 3 source codes and 1 makefile; 1 for the basic C shell which contains the internal command "word". And other 2 for the external commands "dir" and "date". For word command are using the function void word_com(const char* c) to execute the command line statement, this function uses 2 functions namely word_count and w_count. word_count counts the number of words including \n whereas w_count excludes \n.

For the external commands dir and date 2 more source codes are created. These codes are accessed through the execute_external_command function which uses fork, wait and execvp() to do this. This execvp() passes the argument to the external source code which contains the information of the option and the file name on which these command=ds will be executed.

We take a single line input and if else statements are used to determine whether the command is for word, dir or date.

In case of wrong input an error statement saying 'wrong command' or 'wrong option' will be shown.