Assignment 0

The options which various commands can handle are:

```
Is:-r,-C
date:-R,-u
mkdir:--version,-v
rm:-i,-v
cat:-n,-E
history:-c,-r
echo:-e,-n
cd:.,..
```

Exit and pwd has no options.

There are 5 internal commands which are implemented within shell.c and 5 external commands which have their separate files and are executed using fork, exec and wait.

The various corner cases handled in each command are:

- 1. Providing incorrect options to the shell
- 2. Starting double quotes before an argument but not ending it.
- 3. Specifically Is command also handles if you do not provide any directory to it.

- 4. The remove command can handle files which does not exist.
- 5. The cat command can also handle non-existing files.
- 6. Cd can handle directories if not present.
- 7. Implementation of history command is done using a file, so even if the program exits, we have the history data with us.

The test cases can be: ls ls .. cd ... cd <name of directory> ls -r Is -C pwd date date -u date -R history history -c history history -r histo.txt rm <file not present> rm -i <filename> rm -v <filename>