This document provides a description for Q1. in assignment 1.

Workflow:

The program implements a rudimentary shell. It supports executing a command from the command line, assigning of group id and daemonizing a process.

1. When a command is entered, it is parsed by a parser method. It returns an array of arguments. At this point, in main, we fork the function, set up descriptors, user ids, group ids, etc and call execvp with the arguments parsed. This completes the execution of the command.

2. When the daemonize option is used, it brings the said process to background, closes all descriptors and opens them in /dev/null. It also makes sure it is not the leader of any session. This is enough to become a daemon process.