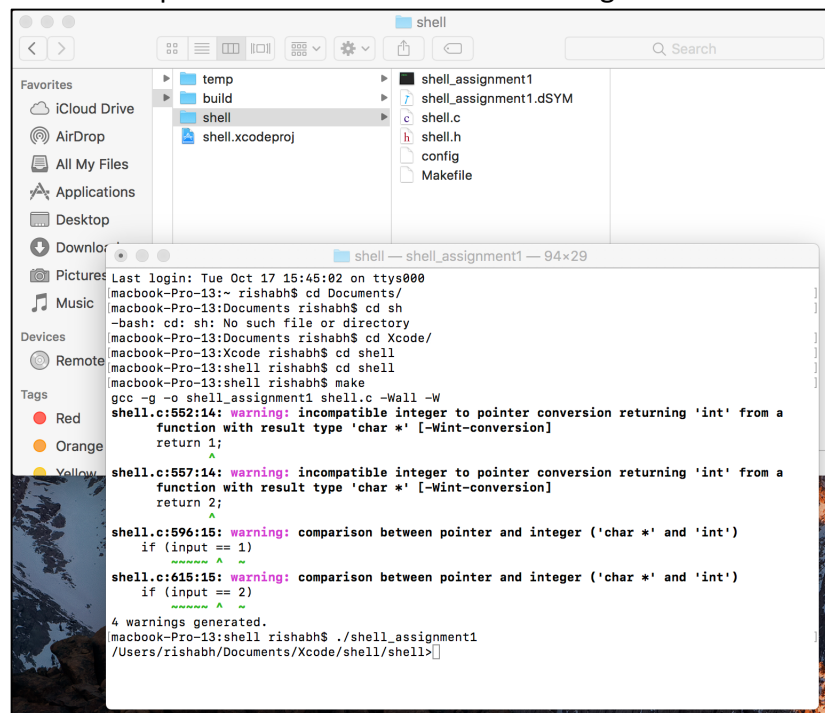Shell Program Output's

```
/*
 * Aim: - to create a custom shell in C
 * Developed By: - Meet Shah (109875889) & Rishabh Sharma (109874160)
 * Programming Assignment: - 1
 * Subject: - CSCI 244, Operating System
 * Programming Language Used: - C
 * Compiler: - gcc
 * Input/Output: - On Console Window (STDIN/STDOUT)
 * Input type: - shell command
 * Output: - execution of the shell command inputted by the user
 * Steps to execute the program: - in command prompt first execute make file by command
 * "make" then type "./shell-assignment1" for executing the custom shell inside command
 * prompt
 */
```
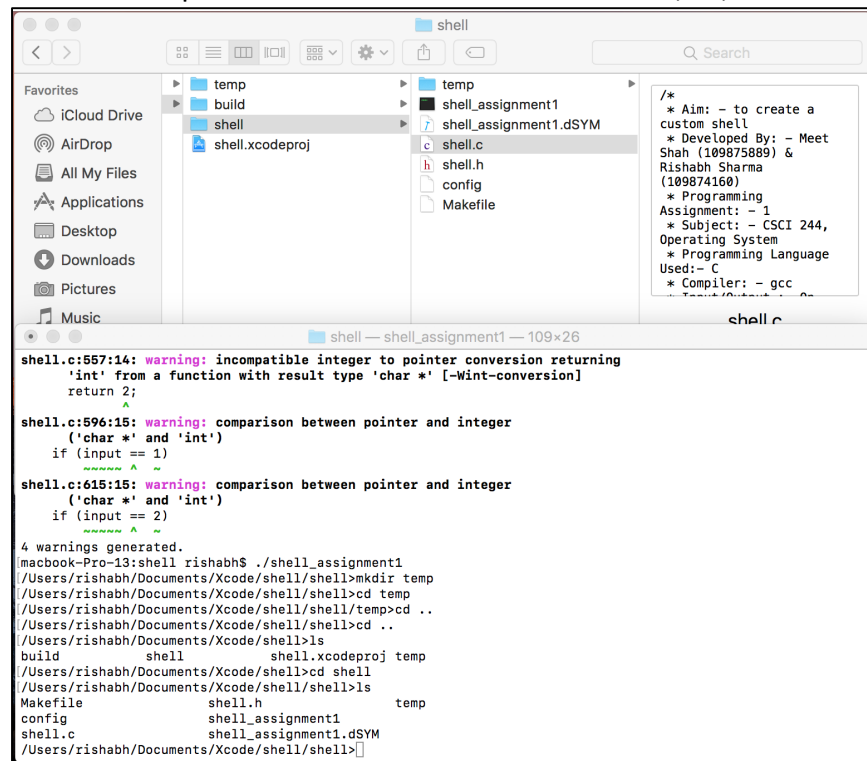
Tested outputs of the program are as follow.

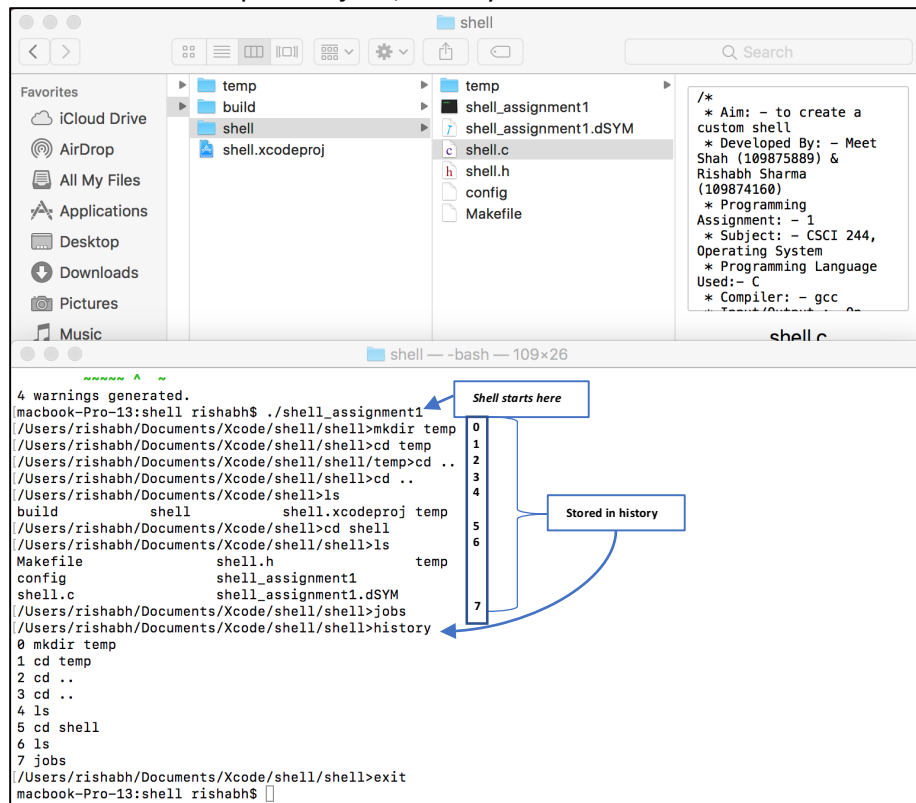Output 1: - Execution of the shell using make file

Shell Program Output's

Output 2: - execution of commands mkdir, cd, ls


```
shell.c:557:14: warning: incompatible integer to pointer conversion returning
    'int' from a function with result type 'char *' [-Wint-conversion]
    return 2;
           ^
shell.c:596:15: warning: comparison between pointer and integer
    ('char *' and 'int')
    if (input == 1)
        ~~~~~ ^  ~
shell.c:615:15: warning: comparison between pointer and integer
    ('char *' and 'int')
    if (input == 2)
        ~~~~~ ^  ~
4 warnings generated.
macbook-Pro-13:shell rishabh$ ./shell_assignment1
[/Users/rishabh/Documents/Xcode/shell/shell>mkdir temp
[/Users/rishabh/Documents/Xcode/shell/shell>cd temp
[/Users/rishabh/Documents/Xcode/shell/shell/temp>cd ..
[/Users/rishabh/Documents/Xcode/shell/shell>cd ..
[/Users/rishabh/Documents/Xcode/shell>ls
build        shell        shell.xcodeproj temp
[/Users/rishabh/Documents/Xcode/shell>cd shell
[/Users/rishabh/Documents/Xcode/shell/shell>ls
Makefile            shell.h            temp
config              shell_assignment1
shell.c             shell_assignment1.dSYM
/Users/rishabh/Documents/Xcode/shell/shell>
```
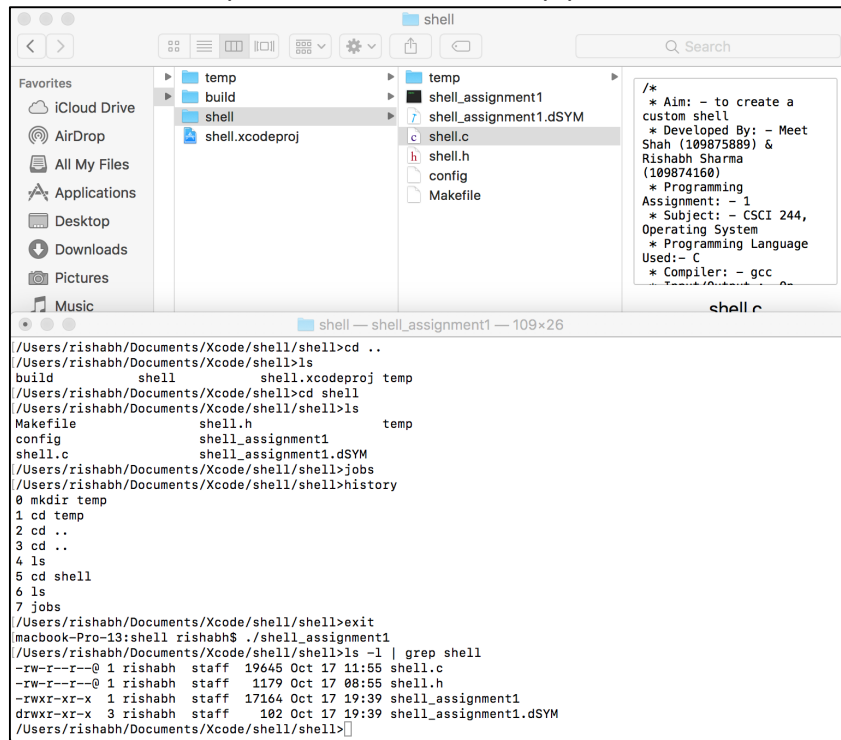
Output 3: - jobs, history and exit command


```
4 warnings generated.
macbook-Pro-13:shell rishabh$ ./shell_assignment1          Shell starts here
/Users/rishabh/Documents/Xcode/shell/shell>mkdir temp    0
/Users/rishabh/Documents/Xcode/shell/shell>cd temp       1
/Users/rishabh/Documents/Xcode/shell/shell/temp>cd ..    2
/Users/rishabh/Documents/Xcode/shell/shell>cd ..         3
/Users/rishabh/Documents/Xcode/shell>ls                  4
build        shell        shell.xcodeproj temp
/Users/rishabh/Documents/Xcode/shell>cd shell            5     Stored in history
/Users/rishabh/Documents/Xcode/shell/shell>ls            6
Makefile            shell.h            temp
config              shell_assignment1
shell.c             shell_assignment1.dSYM
/Users/rishabh/Documents/Xcode/shell/shell>jobs          7
/Users/rishabh/Documents/Xcode/shell/shell>history
0 mkdir temp
1 cd temp
2 cd ..
3 cd ..
4 ls
5 cd shell
6 ls
7 jobs
/Users/rishabh/Documents/Xcode/shell/shell>exit
macbook-Pro-13:shell rishabh$
```

Shell Program Output's

Output 4: - commands with pipeline - 1

Output 5: - commands with pipeline - 2