

CS 551 Project 1 Report

Group 20

September 14, 2013

1 Basic Operation

```
1 # ./shell
2 Oldenv:/root/bin:/usr/local/bin:/bin:/sbin:/usr/bin:/usr/sbin:/usr/pkg/bin:/usr/pkg/sbin:/usr/pkg/X11R6/bin
3 Newenv:/root:/usr/bin:/bin:
4 $
5 $pwd
6 /root
7 $
8 $cd project1
9 $
10 $pwd
11 /root/project1
12 $
13 $ls -alh
14 total 146K
15 drwxr-xr-x  2 root  operator  576B Sep 14 21:17 .
16 drwxr-xr-x  4 root  operator  768B Sep 14 19:36 ..
17 -rw-r--r--  1 root  operator  297B Sep 14 19:36 Makefile
18 -rw-r--r--  1 root  operator   70B Sep 14 19:37 profile.txt
19 -rwxr-xr-x  1 root  operator  60K Sep 14 20:08 shell
20 -rw-r--r--  1 root  operator  24K Sep 14 20:08 shell.c
21 -rw-r--r--  1 root  operator  60K Sep 14 20:08 shell.o
22 $
23 $cat profile.txt
24 PROMPT=$
25 HOME/DIRECTORY=/root
26 ALARM=ON
27 ALARM.TIME=5
28 MAX.ARGUMENTS=128
29 $
30 $ls -l > output.txt
31 $
32 $ls
33 Makefile  Report      output.txt  profile.txt  shell      shell.c      shell.o
34 $cat output.txt
35 total 146K
36 drwxr-xr-x  2 root  operator  576B Sep 14 21:17 .
37 drwxr-xr-x  4 root  operator  768B Sep 14 19:36 ..
38 -rw-r--r--  1 root  operator  297B Sep 14 19:36 Makefile
39 -rwxr-xr-x  1 root  operator    0B Sep 14 21:17 output.txt
40 -rw-r--r--  1 root  operator   70B Sep 14 19:37 profile.txt
41 -rwxr-xr-x  1 root  operator  60K Sep 14 20:08 shell
42 -rw-r--r--  1 root  operator  24K Sep 14 20:08 shell.c
43 -rw-r--r--  1 root  operator  60K Sep 14 20:08 shell.o
44 $
45 $cat output.txt | wc
46      10      83     511
47 $
```

```

48 $wc output.txt
49      10      83      511 output.txt
50 $
51 $sleep 10
52 Child process (pid: 15098) has been running longer than 5 seconds, terminate? (y/n): y
53 Pid 15098 killed.
54 $
55 $sleep 10
56 Child process (pid: 15100) has been running longer than 5 seconds, terminate? (y/n): n
57 $
58 $sleep 10 | sleep 10
59 Child processes (pids: 15101, 15102) have been running longer than 5 seconds, terminate them
   ? (y/n): y
60 Pid 15101 killed.
61 Pid 15102 killed.
62 $
63 $if 10 -eq 10 then echo "true" else echo "false" fi
64 "true"
65 $
66 $quit
67 ERROR: command: quit FAILED
68 $
69 $Alias listcontent="ls -l | grep '^d'"
70 $listcontent
71 drwxrwxr-x+ 153 root   admin    5202 Aug 28 22:16 Applications
72 drwxr-xr-x   2 byron  admin     68 Jan  8 2011 Extensions
73 drwxr-xr-x+  73 root   wheel   2482 Dec 14 2012 Library
74 drwxr-xr-x@   2 root   wheel     68 Aug 16 2012 Network
75 drwxr-xr-x+   4 root   wheel    136 Dec 14 2012 System
76 drwxr-xr-x    6 root   admin    204 Dec 14 2012 Users
77 drwxrwxrwt@   8 root   admin    272 Sep 13 22:05 Volumes
78 drwxr-xr-x@  39 root   wheel   1326 Jun 20 19:51 bin
79 drwxrwxr-t@   2 root   admin     68 Aug 16 2012 cores
80 drwxr-xr-x    3 root   wheel    102 Jan 24 2013 data
81 dr-xr-xr-x    3 root   wheel   5168 Sep  9 17:14 dev
82 dr-xr-xr-x    2 root   wheel     1 Sep  9 22:32 home
83 drwxrwxrwt@   3 root   wheel    102 Apr 22 2012 lost+found
84 drwxr-xr-x    3 root   wheel    102 Feb 22 2013 mnt
85 dr-xr-xr-x    2 root   wheel     1 Sep  9 22:32 net
86 drwxr-xr-x@   4 root   admin    136 Jan 18 2013 opt
87 drwxr-xr-x@   6 root   wheel    204 Dec 14 2012 private
88 drwxr-xr-x@  66 root   wheel   2244 Jun 20 19:51 sbin
89 drwxr-xr-x   12 byron  admin    408 Jul 10 2011 src
90 drwxr-xr-x    2 byron  wheel     68 Sep 25 2011 untitled folder
91 drwxr-xr-x@  14 root   wheel    476 Jan 18 2013 usr
92 $
93 $exit
94 #

```