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 $cd /
70 $Alias listcontent="ls -l | grep '^d'"
71 $listcontent
72 drwxr-xr-x   2 root   operator    3328 Feb 15   2013 bin
73 drwxr-xr-x   4 root   operator     320 Aug 26 20:47 boot
74 drwxr-xr-x   2 root   operator   29184 Aug 25 19:35 dev
75 drwxr-xr-x   6 root   operator    2688 Sep 14 04:25 etc
76 drwxr-xr-x   4 root   operator     256 Aug 26 00:31 home
77 drwxr-xr-x   2 root   operator     192 Feb 15   2013 lib
78 drwxr-xr-x   2 root   operator     256 Feb 15   2013 libexec
79 drwxr-xr-x   2 root   operator     128 Aug 26 00:31 mnt
80 dr-xr-xr-x   1 root   operator       0 Sep 14 22:59 proc
81 drwxr-xr-x   6 root   operator    2304 Sep 14 22:22 root
82 drwxr-xr-x   2 root   operator    1536 Aug 26 20:47 sbin
83 dr--r--r--   1 root   operator       0 Sep 14 22:59 sys
84 drwxrwxrwt   2 root   operator     384 Sep 14 04:56 tmp
85 drwxr-xr-x  21 root   operator    1408 Aug 26 00:31 usr
86 drwxr-xr-x   4 root   operator     384 Aug 26 00:31 var
87 $
88 $exit
89 #
```