



# TEST DOCUMENTATION














COMP 4981 Terminal Processor

Test #	Description	Test Steps	Expected Result	Pass / Fail
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1	Normal terminal processes disabled	<ol style="list-style-type: none"> <li>1. Start Program</li> <li>2. Type ^C, Enter, and ^Z</li> </ol>	No changes will occur.	Pass
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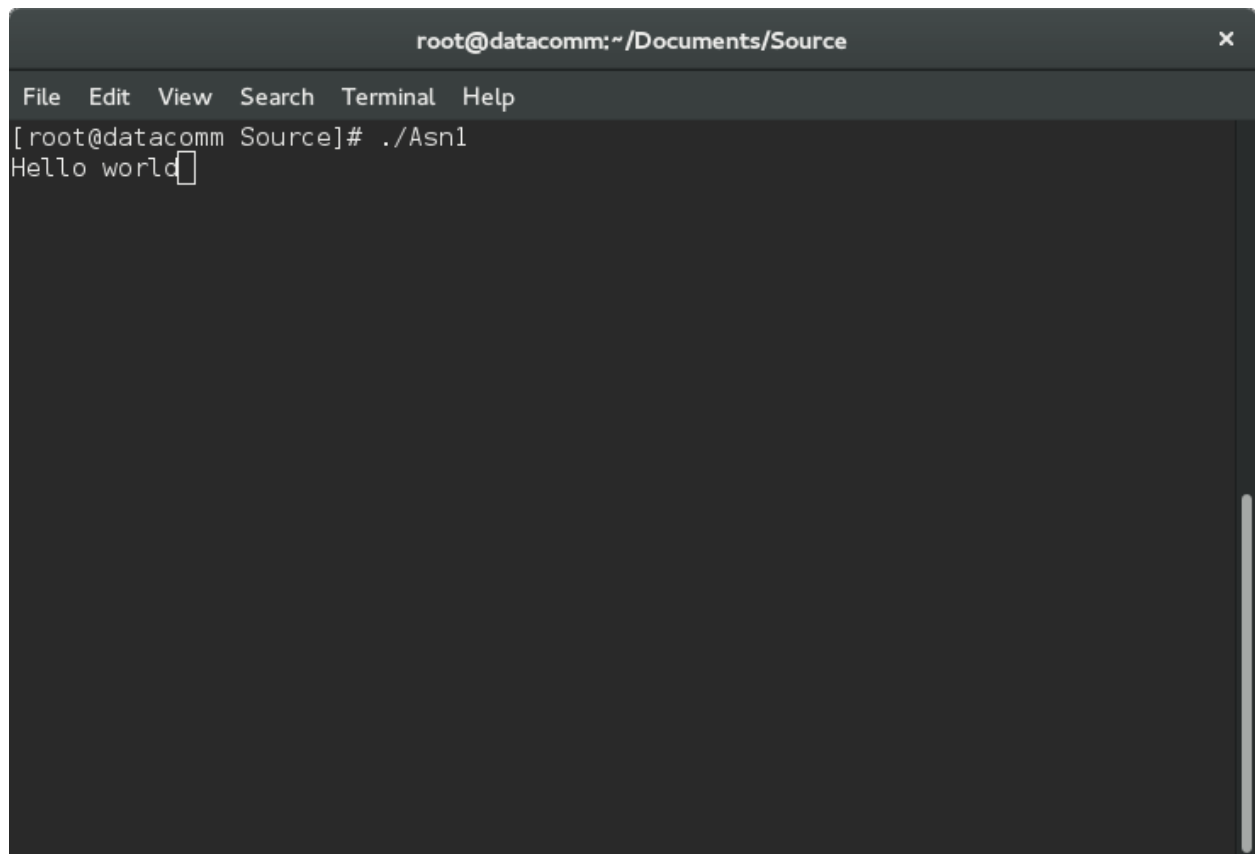
2	Three processes running	<ol style="list-style-type: none"> <li>1. Start Program</li> <li>2. Open system monitor</li> <li>3. Look for the process Asn1</li> </ol>	Should display 3 processes	Pass
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### Test Case 2 | Screenshot

Processes Resources File Systems							Q	≡	×
Process Name	User	% CPU	ID	Memory	Priority				
 abrt-applet	root	0	21931	4.4 MiB	Normal				
 abrt-d	root	0	795	1.3 MiB	Normal				
 abrt-dump-journal-oops	root	0	822	1.2 MiB	Normal				
 abrt-watch-log	root	0	824	960.0 KiB	Normal				
 accounts-daemon	root	0	756	880.0 KiB	Normal				
 acpi_thermal_pm	root	0	98	N/A	Very High				
 alsactl	root	0	746	240.0 KiB	Very Low				
 Asn1	root	0	25522	72.0 KiB	Normal				
 Asn1	root	0	25524	76.0 KiB	Normal				
 Asn1	root	0	25525	76.0 KiB	Normal				
 ata_sff	root	0	45	N/A	Very High				
 atd	root	0	829	184.0 KiB	Normal				
End Process									

3	Each character from keyboard input is echoed on the screen	1. Start Program 2. Type "Hello world"	"Hello world" should be echoed on the screen	Pass
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### Test Case 3 | Screenshot



The screenshot shows a terminal window titled "root@datacomm: ~/Documents/Source". The terminal has a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". The command prompt is "[root@datacomm Source]# ./Asn1". The output of the program is "Hello world" followed by a cursor. The terminal background is dark gray, and the text is white.

4	Abnormal termination	<ol style="list-style-type: none"> <li>1. Start Program</li> <li>2. Type "^K"</li> </ol>	Exists all three processes and give core dump error	Pass
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#### Test Case 4 | Screenshot

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root@datacomm:~/Documents/Source
File Edit View Search Terminal Help
[root@datacomm ~]# cd Do
bash: cd: Do: No such file or directory
[root@datacomm ~]# cd Documents/
[root@datacomm Documents]# ls
Source
[root@datacomm Documents]# cd Source/
[root@datacomm Source]# ls
Asn1    main.o    processes.c  processes.o  utilities.h
main.c  Makefile  processes.h  utilities.c  utilities.o
[root@datacomm Source]# make clean
rm main.o utilities.o processes.o Asn1
[root@datacomm Source]# make
gcc      -c main.c
gcc      -c utilities.c
gcc      -c processes.c
gcc      -Wall -o Asn1      main.o utilities.o processes.o
[root@datacomm Source]# ./Asn1
9.9
9.3
Aborted (core dumped)
[root@datacomm Source]# ./Asn1

```

5	Translate from 'a' to z	<ol style="list-style-type: none"> <li>1. Start Program</li> <li>2. Type "apple E"</li> </ol>	Displays "zpple"	Pass
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**Test Case 5 | Screenshot**

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root@datacomm:~/Documents/Source
File Edit View Search Terminal Help
[root@datacomm Source]# ./Asn1
appleE
zpple

```

6	Delete character with 'X'	<ol style="list-style-type: none"> <li>1. Start Program</li> <li>2. Type "Don't delete meeeXXE"</li> </ol>	Displays "Don't delete me"	Pass
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**Test Case 6 | Screenshot**

```
root@datacomm:~/Documents/Source
File Edit View Search Terminal Help
[root@datacomm Source]# ./Asn1
Dont delete meeeXXE
Dont delete me
█
```

7	Line kill with 'K'	1. Start Program 2. Type "I will be deleted K What happened? E"	Displays "Whzt happened?"	Pass
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**Test Case 7 | Screenshot**

root@datacomm:~/Documents/Source

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File Edit View Search Terminal Help

[root@datacomm Source]# ./Asn1

I will be deleted K What happened? E

Whzt hzppened?

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