
GPSD Reader

Assignment 3

Test Documentation

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Test #	Description	Test	Expected Results	Pass/Fail	Supporting Details
1	Curses GUI display	Program startup	Expect all the required parameters for the curses GUI are displayed. (Time stamp (UTC), Latitude/Longitude, PRN , Elevation o Azimuth, SNR, Used flag (Y or N))	Pass	See Figure.1
2	opening the device	Ensure that the GPS device is properly opened	If it failed, prompt for error message and terminate the program	Pass	See Figure.2
3	Reading from GPS	Ensure that the program is running in an outside environment where there is nothing blocking the sky.	Corresponding values for the GUI parameters will be updated on the program.	Pass	See Figure.3
4	Disconnecting from the device	Enter Ctrl^C	Display message and terminate the program	Pass	See Figure.4
5	Displaying longitude and latitude	Ensure there are more than 2 satellites detected	Corresponding values are displayed properly. If there are no fixes, display "n\a"	Pass	See Figure.5 for lack of satellites, See figure. 3 for sufficient satellites.
6	Unplugging the satellite dongle	Unplug the dongle while reading satellites.	The error window will display a problem reading satellites.	Pass	See Figure 6.

Figure 1:

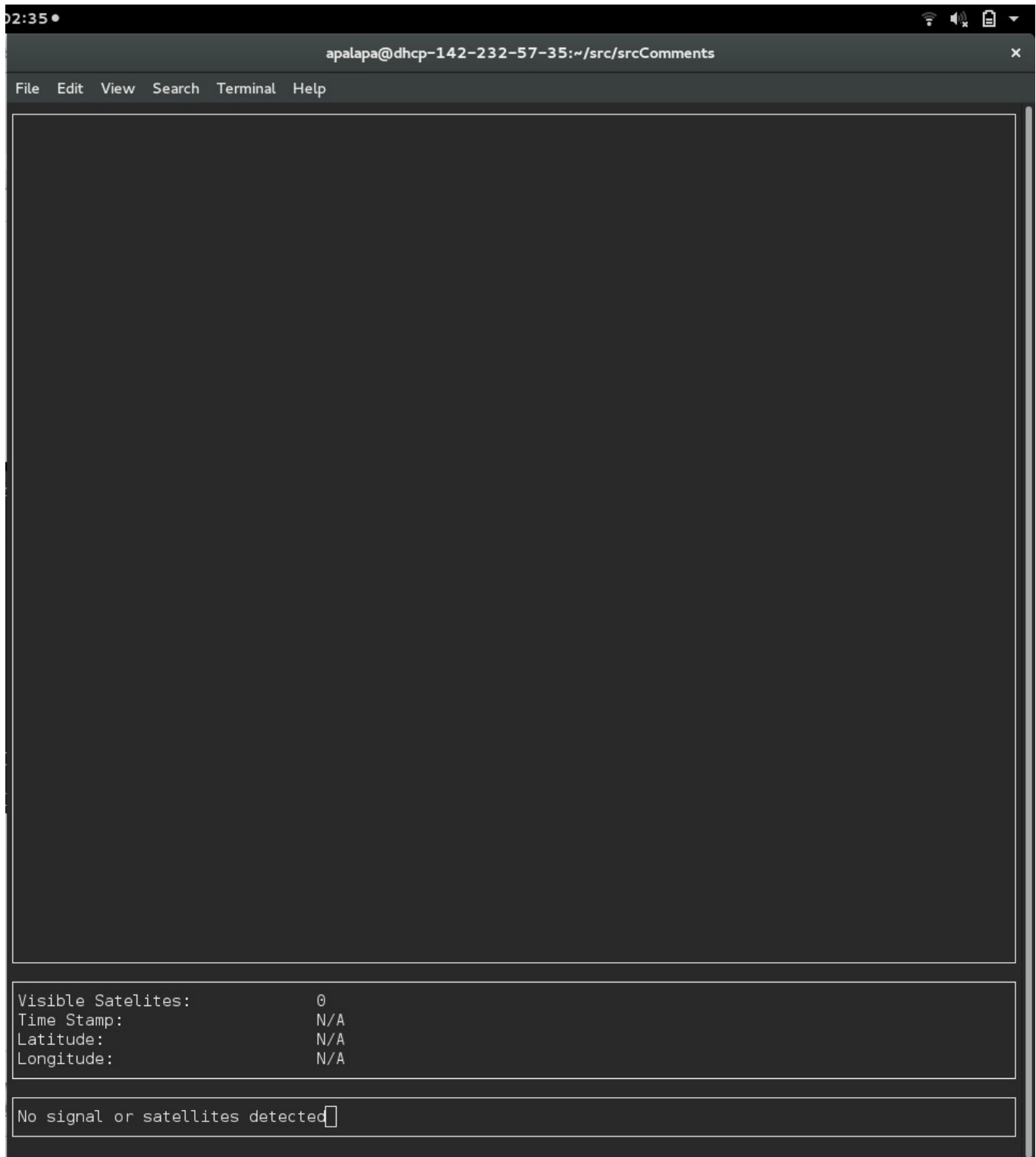


Figure 2:

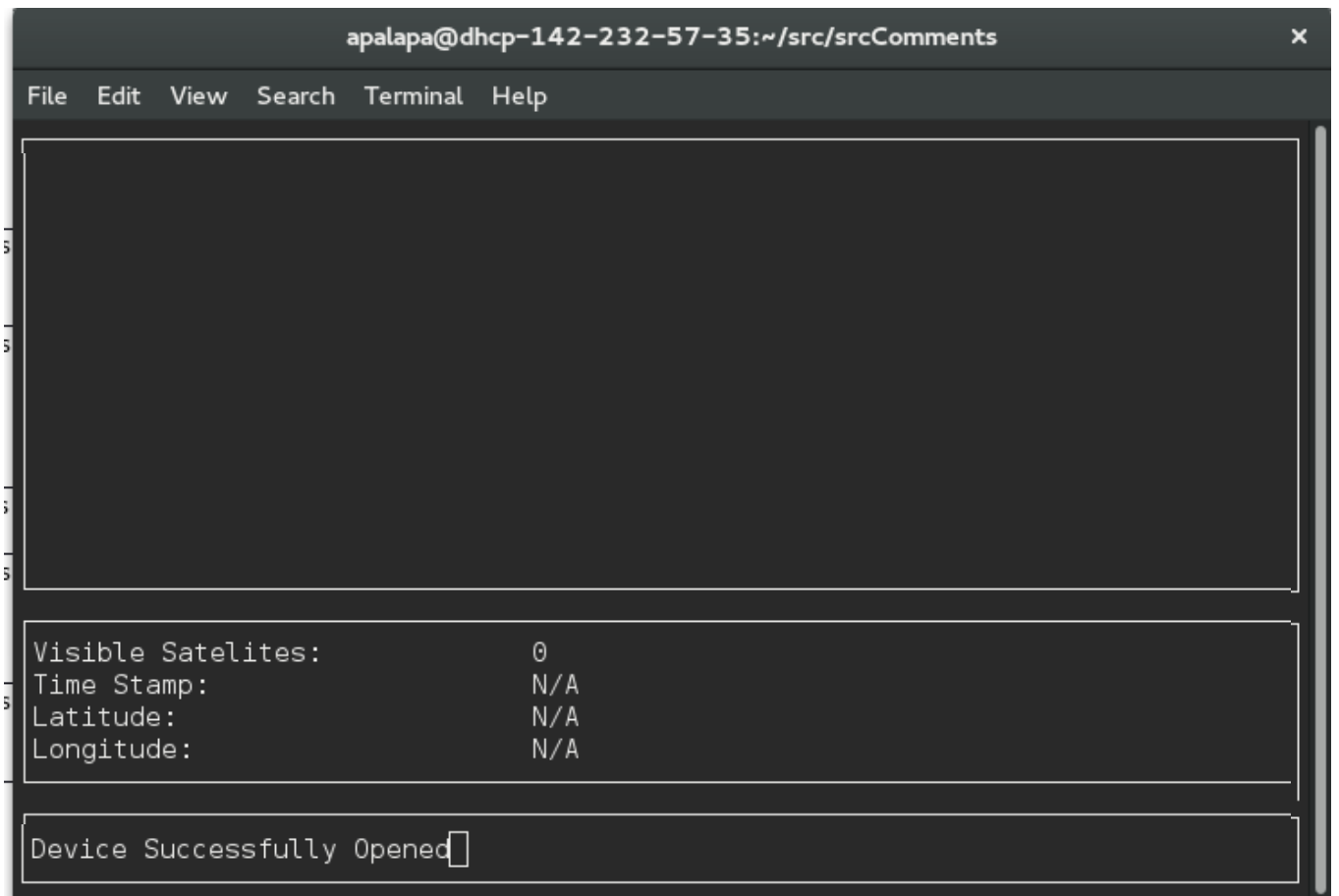
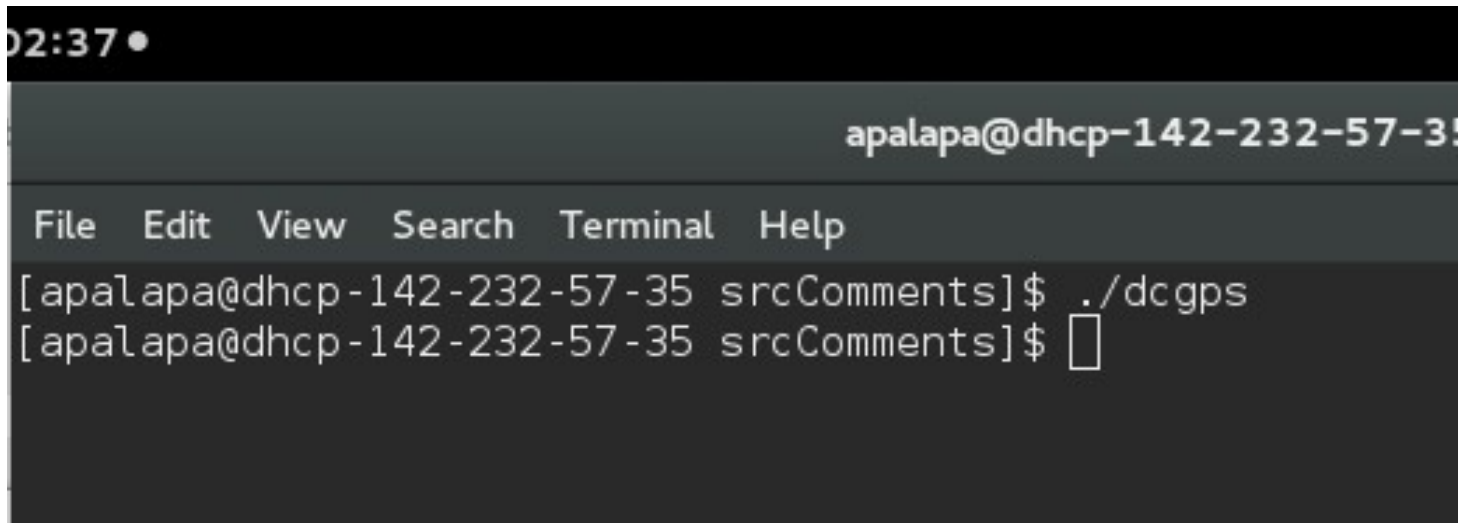


Figure 3:

02:31 •					
apalapa@dhcp-142-232-57-35:~/src/srcComments					
File Edit View Search Terminal Help					
PRN:	13	Elevation:	46	Azimuth:	237
SNR:	33	Used:	Y		
PRN:	17	Elevation:	57	Azimuth:	177
SNR:	37	Used:	Y		
PRN:	19	Elevation:	51	Azimuth:	66
SNR:	38	Used:	Y		
PRN:	30	Elevation:	40	Azimuth:	129
SNR:	35	Used:	Y		
PRN:	1	Elevation:	25	Azimuth:	75
SNR:	31	Used:	Y		
PRN:	11	Elevation:	26	Azimuth:	58
SNR:	31	Used:	Y		
PRN:	28	Elevation:	71	Azimuth:	49
SNR:	32	Used:	Y		
PRN:	7	Elevation:	9	Azimuth:	129
SNR:	14	Used:	Y		
PRN:	135	Elevation:	32	Azimuth:	192
SNR:	33	Used:	Y		
Visible Satellites: 9					
Time Stamp: Mon Nov 9 02:31:57 2015					
Latitude: 49 N					
Longitude: 123 S					

Figure 4:



A terminal window with a dark background. The title bar at the top shows '02:37' and a red dot. The terminal title is 'apalapa@dhcp-142-232-57-35'. The menu bar includes 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The prompt is '[apalapa@dhcp-142-232-57-35 srcComments]\$'. The first command entered is './dcgps', which is followed by a second prompt line '[apalapa@dhcp-142-232-57-35 srcComments]\$' with a cursor.

```
02:37 •
apalapa@dhcp-142-232-57-35
File Edit View Search Terminal Help
[apalapa@dhcp-142-232-57-35 srcComments]$ ./dcgps
[apalapa@dhcp-142-232-57-35 srcComments]$
```

Figure 5:

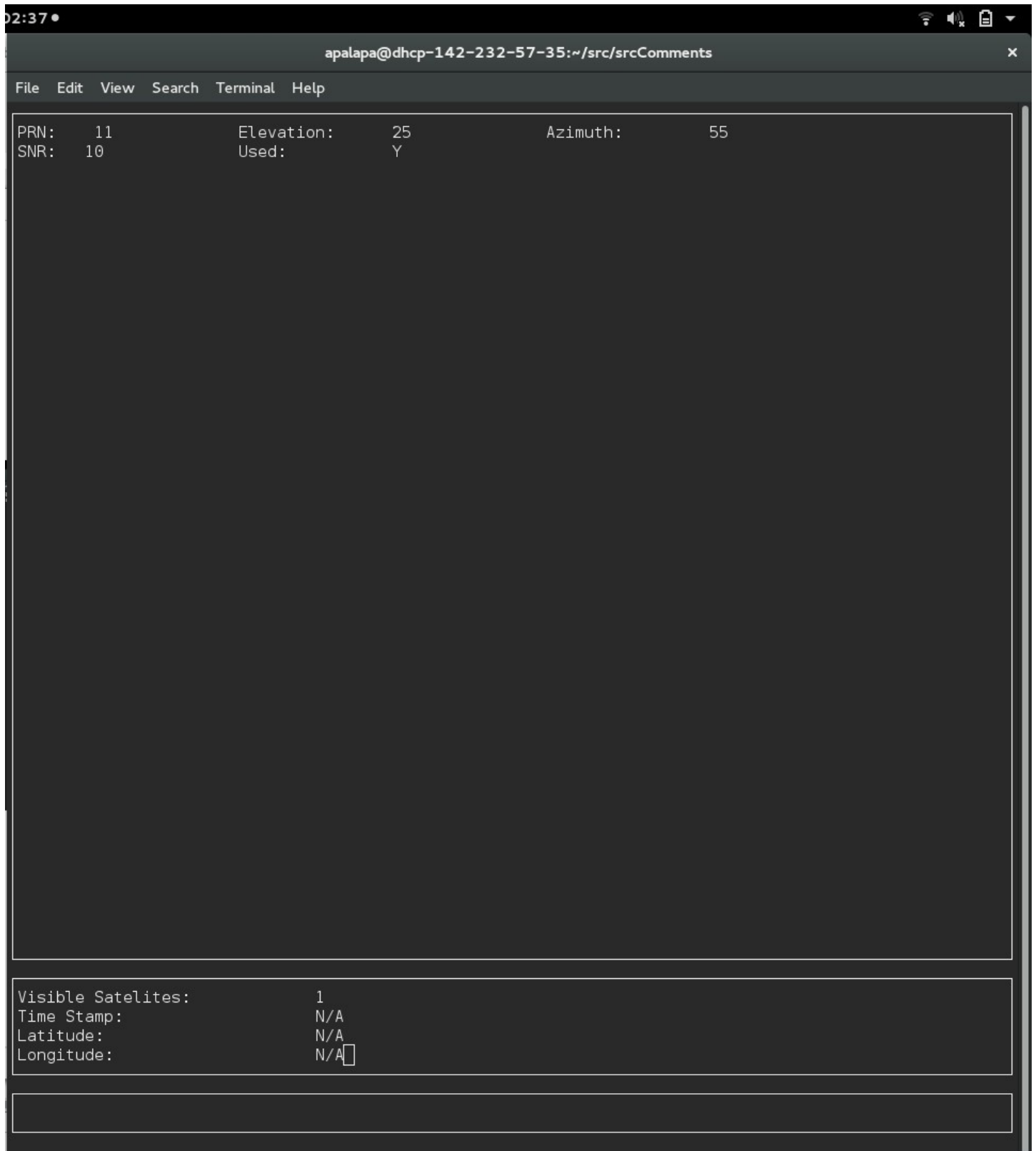
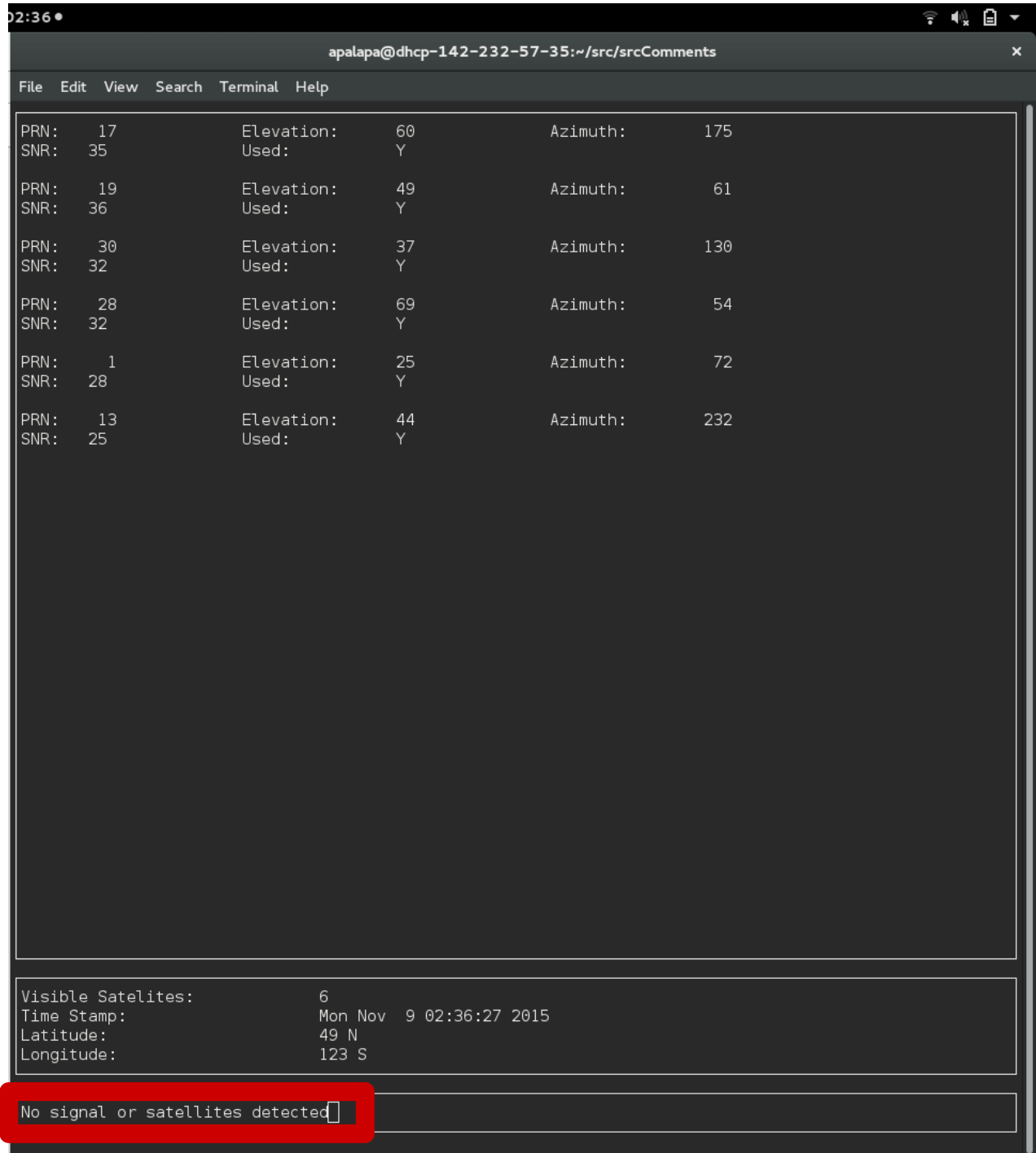


Figure 6:



The screenshot shows a terminal window with a dark background. The title bar at the top reads '02:36 •' and 'apalapa@dhcp-142-232-57-35:~/src/srcComments'. Below the title bar is a menu bar with 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The main content area displays a table of satellite data. At the bottom, there is a status bar with the text 'No signal or satellites detected' highlighted by a red rectangular box.

PRN	SNR	Elevation	Used	Azimuth
17	35	60	Y	175
19	36	49	Y	61
30	32	37	Y	130
28	32	69	Y	54
1	28	25	Y	72
13	25	44	Y	232

Visible Satellites: 6
Time Stamp: Mon Nov 9 02:36:27 2015
Latitude: 49 N
Longitude: 123 S

No signal or satellites detected