LAB 4

Name	Keerthan P.V
SRN	PES2UG23CS272

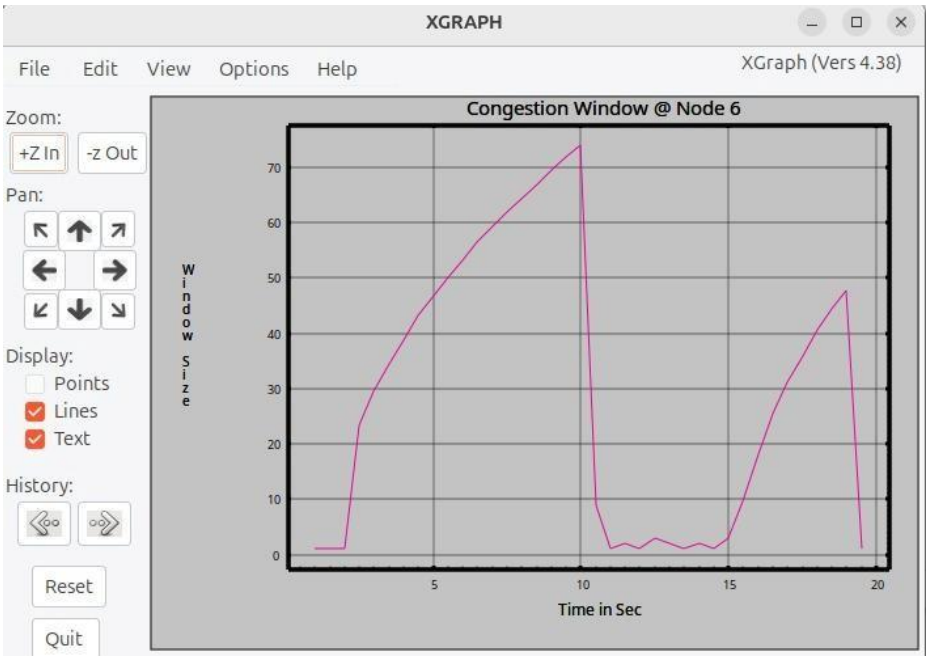
```
keerthan@keerthan-VMware-Virtual-Platform:~$ nano Lab3_CW_Updated.tcl
keerthan@keerthan-VMware-Virtual-Platform:~$ cd Downloads
keerthan@keerthan-VMware-Virtual-Platform:~/Downloads$ nano Lab3_CW_Updated.tcl
keerthan@keerthan-VMware-Virtual-Platform:~/Downloads$
```

Change path

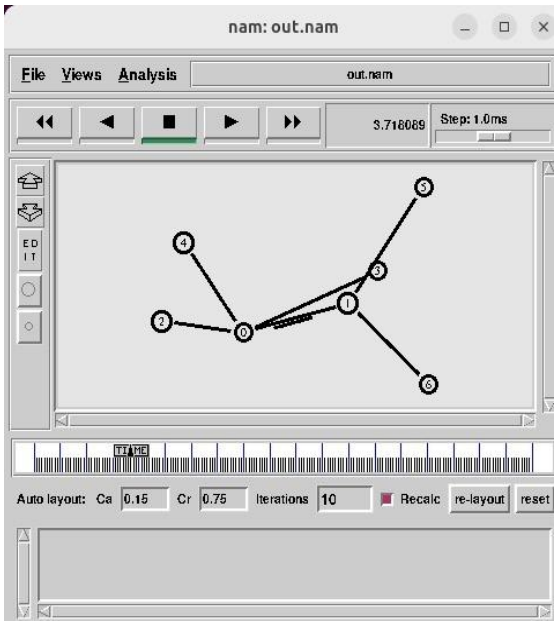
```
  GNU nano 7.2                    Lab3_CW_Updated.tcl

#=================================
#        Termination
#=================================
#Define a 'finish' procedure
proc finish {} {
    global ns namfile tracefile file6 file2
    $ns flush-trace
    close $tracefile
    close $namfile
    close $file6
    close $file2
    exec nam out.nam &
    exec /home/vboxuser/Downloads/XGraph4.38_linux64/bin/xgraph cw6.out &
    exec /home/vboxuser/Downloads/XGraph4.38_linux64/bin/xgraph cw2.out &
    exit 0
}
$ns at $val(stop) "finish"
$ns run

^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify   ^/ Go To Line
```

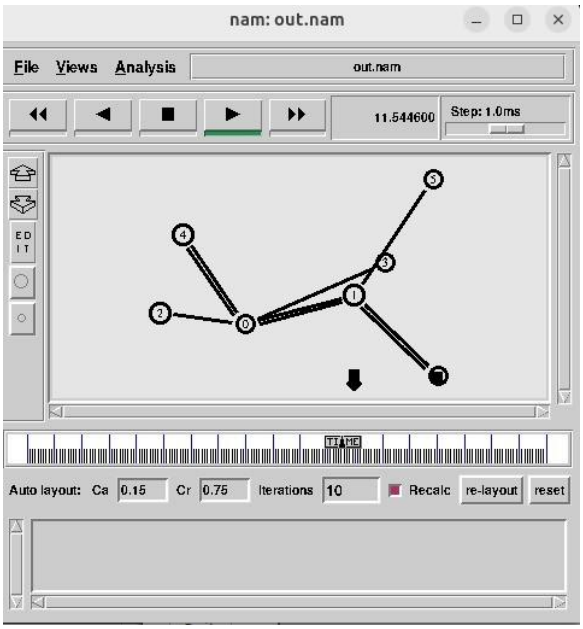
```
XGraph v4.38
Gtk-Message: 16:05:05.602: Failed to load module "canberra-gtk-module"
Gtk-Message: 16:05:05.602: Failed to load module "canberra-gtk-module"
Window (704 x 465)
Window (704 x 465)
38 points read.
38 points read.
   Clicked at (x,y) = (11.2032, 2.72325)
```

OUTPUT:-


XGRAPH
File
Edit
View
Options
Help
XGraph (Vers 4.38)
Zoom:
+Z In
-z Out
Pan:
Display:
Points
Lines
Text
History:
Reset
Quit
Congestion Window @ Node 6
Window Size
Time in Sec
0
10
20
30
40
50
60
70
5
10
15
20


XGRAPH
File
Edit
View
Options
Help
XGraph (Vers 4.38)
Zoom:
+Z In
-z Out
Pan:
Display:
Points
Lines
Text
History:
Reset
Quit
Congestion Window @ Node 2
Window Size
Time in Sec
0
10
20
30
40
50
60
70
80
90
5
10
15
20





Description **Procedure:**

1. **Network Setup:** Establish a simulated network topology using appropriate networking tools or programming.
2. **Routing Analysis:** Identify the current routing paths and analyze the data flow.
3. **Path Modification:** Implement changes to the network path using routing protocols or manual configurations.
4. **Validation:** Test the modified path by analyzing the output and ensuring proper data transmission.

Output:

- A demonstration of how network paths can be changed dynamically.
- Improved performance or alternate routing when primary paths fail.
- Observations of changes in network behavior due to path modifications.