

Assignment 1:

Run the bash script file included in Berkley folder by typing the following::

Bash Shellscript

Script file includes the following::

```
##This is comment
```

```
g++ berk.cpp -o berk.out -std=c++11 -pthread
```

```
g++ node2.cpp -o node2 -std=c++11 -pthread
```

```
xterm -hold -e './berk.out 1060 2' &
```

```
xterm -hold -e './node2 127.0.0.1 1060'&
```

```
xterm -hold -e './node2 127.0.0.1 1060'&
```

```
exit 0
```

Command line argument format for berk.cpp

./filename [port] [nodes in network excluding daemon]

Command line argument format for node2.cpp

./filename [server address] [port]

Assignment 2:

Run bash script file included in causal and non causal ordering folders. I hardcoded loop counter of receiving function according to number of multicasts and nodes.

Script file includes following ::

```
##This is comment
```

```
g++ causal.cpp -o causal.out -std=c++11 -pthread
```

```
xterm -hold -e './causal.out 2050 3 1' & xterm -hold -e './causal.out 2050 3 2' & xterm -hold -e './causal.out 2050 3 3'
```

```
exit 0
```

Separate X-term windows are opened for each process when runned.

Assignment 3:

Bonus also includes script file in the same folder. Executing the script will run programs and make changes accordingly to text file.

Usage ./filename [port] [nodes in network] [node number of this program] [request for shared resource]

Request to shared resource can take two values, 0 and 1. 0 indicates access is not required and 1 means shared resource is required.

Script file contents:

```
##This is comment
```

```
g++ bonus.cpp -o bonus.out -std=c++11 -pthread
```

```
xterm -hold -e './bonus.out 2040 3 1 1' & xterm -hold -e './bonus.out 2040 3 2 1' & xterm -hold -  
e './bonus.out 2040 3 3 0'
```

```
exit 0
```