

## WEEK 2

### AIM:

To Install NS 2 tool in ubuntu

### PROCEDURE:

1. Install the NS 2.35 from internet according to the version of ubuntu like 16.04, 14.04 etc., save it in the home folder.
2. After installing type the following commands on terminal.
  - a. Sudo apt-get update
  - b. Sudo apt-get dist-upgrade
  - c. Sudo apt-get install build-essential autoconf automake libxmu-dev
  - d. Sudo apt-get install gcc-4.4
  - e. cd ns-allinone-2.35/ns-2.35/linkstate
  - f. Now open the file named "ls.h" and scroll to the 137<sup>th</sup> line. In that change the word "erase" to "this->erase". After making the changes save it. To open the file from command line use the command : gedit ls.h
  - g. gedit ns-allinone-2.35/otcl-1.13/Makefile.in
  - h. In the file change CC=@CC@ to CC=gcc-4.4
  - i. Sudo gedit ~/.bashrc

A file opens, type the following content in the file.

```
# LD_LIBRARY_PATH
```

```
OTCL_LIB=/home/ns-allinone-2.35/otcl-1.14
```

```
NS2_LIB=/home/ns-allinone-2.35/lib
```

```
X11_LIB=/usr/X11R6/lib
```

```
USR_LOCAL_LIB=/usr/local/lib
```

```
export
```

```
LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$OTCL_LIB:$N
```

```
S2_LIB:$X11_LIB:$USR_LOCAL_LIB
```

```
# TCL_LIBRARY
```

```
TCL_LIB=/home/ns-allinone-2.35/tcl8.5.10/library
```

```
USR_LIB=/usr/lib
```

```
export TCL_LIBRARY=$TCL_LIB:$USR_LIB
```

```
# PATH
```

```
XGRAPH=/home/ns-allinone-2.35/bin:/home/ns-allinone-2.35/tcl8.5.10/unix:/home/ns-allinone-2.35/tk8.5.10/unix
#the above two lines beginning from xgraph and ending with
unix should come on the same line
```

```
NS=/home/ns-allinone-2.35/ns-2.35/
```

```
NAM=/home/ns-allinone-2.35/nam-1.15/
```

```
PATH=$PATH:$XGRAPH:$NS:$NAM
```

j. `cd ~ns-allinone-2.35`

k. `./install`

l. `ns`

The prompt on the screen changes from \$ to %.