

```
sudo apt install build-essential autoconf automake libxmu-dev
sudo apt update
sudo apt install gcc-4.8 g++-4.8
sudo apt update
download ns-allinone-2.35.tar.gz ( recommended to have 2.34 version)
```

Unzip the ns2 packages to home folder

```
$] tar zxvf ns-allinone-2.35.tar.gz
```

```
exam@C04L0847:~$ cd ns-allinone-2.35/
exam@C04L0847:~/ns-allinone-2.35$ cd ns-2.35/
exam@C04L0847:~/ns-allinone-2.35/ns-2.35$ gedit Makefile.in
```

Replace line

```
CC = @CC@ to CC      = gcc-4.8
CPP = @CPP@ or @CXX@
CPP  = g++-4.8
```

```
exam@C04L0847:~/ns-allinone-2.35$ cd nam-1.15/
exam@C04L0847:~/ns-allinone-2.35/nam-1.15$ gedit Makefile.in
```

Replace line

```
CC = @CC@ to CC      = gcc-4.8
CPP = @CPP@ or @CXX@
CPP  = g++-4.8
```

```
exam@C04L0847:~/ns-allinone-2.35/otcl-1.14$ cd ..
exam@C04L0847:~/ns-allinone-2.35$ cd xgraph-12.2/
exam@C04L0847:~/ns-allinone-2.35/xgraph-12.2$ gedit Makefile.in
```

Replace line

```
CC = @CC@ to CC      = gcc-4.8
CPP = @CPP@ or @CXX@
CPP  = g++-4.8
```

```
exam@C04L0847:~/ns-allinone-2.35/nam-1.15$ cd ..
exam@C04L0847:~/ns-allinone-2.35$ cd otcl-1.14/
exam@C04L0847:~/ns-allinone-2.35/otcl-1.14$ gedit Makefile.in^C
exam@C04L0847:~/ns-allinone-2.35/otcl-1.14$
```

Replace line

```
CC = @CC@ to CC      = gcc-4.8
CPP = @CPP@ or @CXX@
CPP  = g++-4.8
```

```
exam@C04L0847:~/ns-allinone-2.35/xgraph-12.2$ cd ..
exam@C04L0847:~/ns-allinone-2.35$ cd ns-2.35/
exam@C04L0847:~/ns-allinone-2.35/ns-2.35$ cd linkstate/
exam@C04L0847:~/ns-allinone-2.35/ns-2.35/linkstate$ gedit ls.h
```

Change at the Line no 137

```
void eraseAll() { erase(baseMap::begin(), baseMap::end()); }
```

to This

```
void eraseAll() { this->erase(baseMap::begin(), baseMap::end()); }
```

```
exam@C04L0847:~/ns-allinone-2.35/ns-2.35/linkstate$ cd ..
exam@C04L0847:~/ns-allinone-2.35/ns-2.35$ cd ..
exam@C04L0847:~/ns-allinone-2.35$ ./install
```

Close the terminal and open new terminal

```
exam@C04L0847:~$ gedit .bashrc
```

Paste the following lines at end of file (Make necessary changes i.e. replace user name)

```
export PATH=$PATH:/home/<yourusername>/ns-allinone-
2.35/bin:/home/<yourusername>/ns-allinone-
2.35/tcl8.5.10/unix:/home/<yourusername>/ns-allinone-
2.35/tk8.5.10/unix
```

```
export LD_LIBRARY_PATH=/home/<yourusername>/ns-allinone-2.35/otcl-
1.14:/home/<yourusername>/ns-allinone-2.35/lib
```

**if NAM is not working :
use following steps:**

```
download nam_1.14_amd64.deb package
sudo apt-get purge nam
unzip nam_1.14_amd64.zip
sudo dpkg -i nam_1.14_amd64.deb
sudo apt-mark hold nam
```

Restart your PC