Project 3

(Note: Complete Code not copied to github, can be provided on request)

Implementation of **Exercise**: Modify RouterPort

Step1: Created network between 2 routers:

comnetsii@comnetsII:~/tools$ sudo createNet1
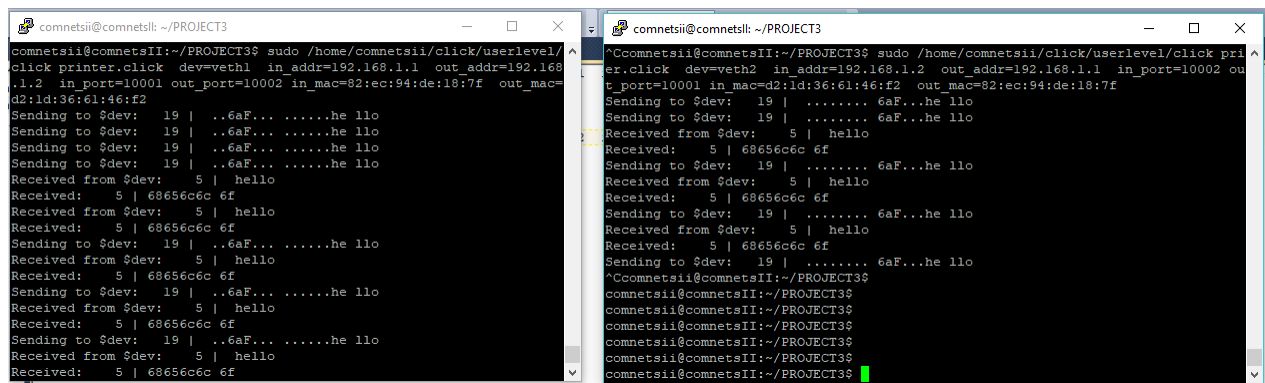
Step2: routerport.click

Step 3: On one putty terminal Run command to start communication and enter own MAC addresses

```
sudo /home/comnetsii/click/userlevel/click printer.click  dev=veth1
in_addr=192.168.1.1  out_addr=192.168.1.2  in_port=10001 out_port=10002
in_mac=82:ec:94:de:18:7f  out_mac=d2:1d:36:61:46:f2
```

and On second putty terminal

```
sudo /home/comnetsii/click/userlevel/click printer.click  dev=veth2
in_addr=192.168.1.2  out_addr=192.168.1.1  in_port=10002 out_port=10001
in_mac=d2:1d:36:61:46:f2  out_mac=82:ec:94:de:18:7f
```

Screenshot shows running 2 click instance on 2 putty windows

Implementation of **Exercise**: SimplePullElement:

Created customize element and click file to test
1)SimplePullElement.cc
2)SimplePullElement.hh
3) Create Project3-Exercise1-B-PullCall.click to run communication; Used RatedSource for payload

```
comnetsii@comnetsll: ~/PROJECT3                                    —    □    ×
comnetsii@comnetsII:~/PROJECT3$ click Project3-Exercise1-B-PullCall.click
click_chatter: Got packet size 5
FROMCLICK:     5 |   Hello
click_chatter: Got packet size 5
FROMCLICK:     5 |   Hello
click_chatter: Got packet size 5
FROMCLICK:     5 |   Hello
click_chatter: Got packet size 5
FROMCLICK:     5 |   Hello
click_chatter: Got packet size 5
FROMCLICK:     5 |   Hello
click_chatter: Got packet size 5
FROMCLICK:     5 |   Hello
click_chatter: Got packet size 5
FROMCLICK:     5 |   Hello
click_chatter: Got packet size 5
FROMCLICK:     5 |   Hello
^Ccomnetsii@comnetsII:~/PROJECT3$
comnetsii@comnetsII:~/PROJECT3$
```

Exercise 2:

ChangeContents:

Created customize element and click file to test
1)ChangeContents.cc
2)ChangeContents.hh
3) Create Project3-Exercise-ChangeContentsCall.click to run communication; Used RatedSource for
payload

```
Packet before change:   23 |   HelloTes tingMyOl dFriend
Packet received at click:    9 |   NewPacke t
Packet before change:   23 |   HelloTes tingMyOl dFriend
Packet received at click:    9 |   NewPacke t
Packet before change:   23 |   HelloTes tingMyOl dFriend
Packet received at click:    9 |   NewPacke t
Packet before change:   23 |   HelloTes tingMyOl dFriend
Packet received at click:    9 |   NewPacke t
Packet before change:   23 |   HelloTes tingMyOl dFriend
Packet received at click:    9 |   NewPacke t
comnetsii@comnetsII:~/click/conf$
```