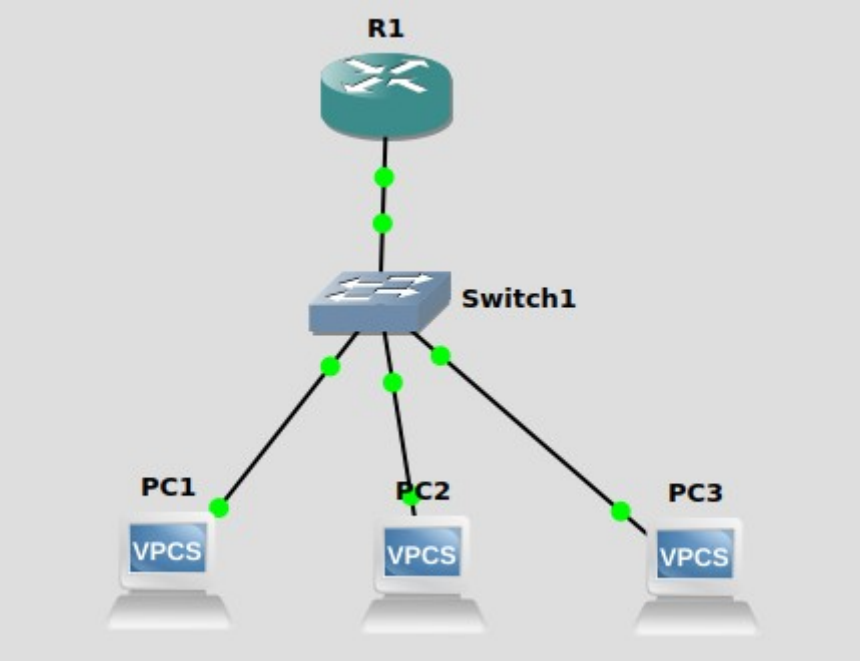
NAME: PRERNA MITTAL
SECTION: CSE-D

QUESTION-1
GNS3 DIAGRAM




```
R1#config t
Enter configuration commands, one per line.  End with CNTL/Z.
R1(config)#inter f0/1
R1(config-if)#ip address 192.168.10.1 255.255.255.240
R1(config-if)#no shutdown
R1(config-if)#exit
R1(config)#
*Mar  1 00:02:54.167: %LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to up
*Mar  1 00:02:55.167: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
```

```
R1(config)#interface f0/0.2
R1(config-subif)#encapsulation dot1q 2
R1(config-subif)#ip address 192.168.1.65 255.255.255.192
```

```
R1(config-subif)#no shutdown
R1(config-subif)#int f0/0.3
R1(config-subif)#encapsulation dot1q 3
R1(config-subif)#ip address 192.168.1.129. 255.255.255.240
```

PC1:

```
PC2> ip 192.168.1.67/26 192.168.1.65
Checking for duplicate address...
PC2 : 192.168.1.67 255.255.255.192 gateway 192.168.1.65
```

PC2:

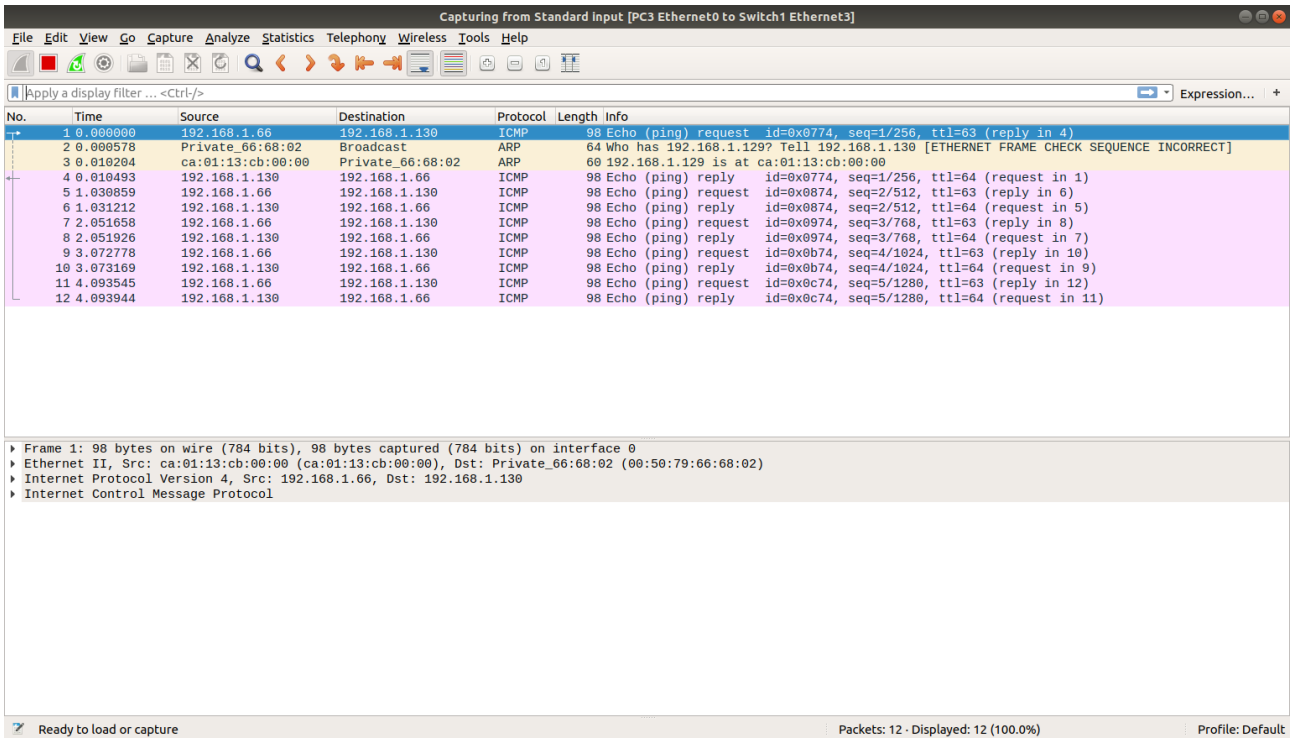
```
PC2> ip 192.168.1.67/26 192.168.1.65
Checking for duplicate address...
PC2 : 192.168.1.67 255.255.255.192 gateway 192.168.1.65
```

PC3:

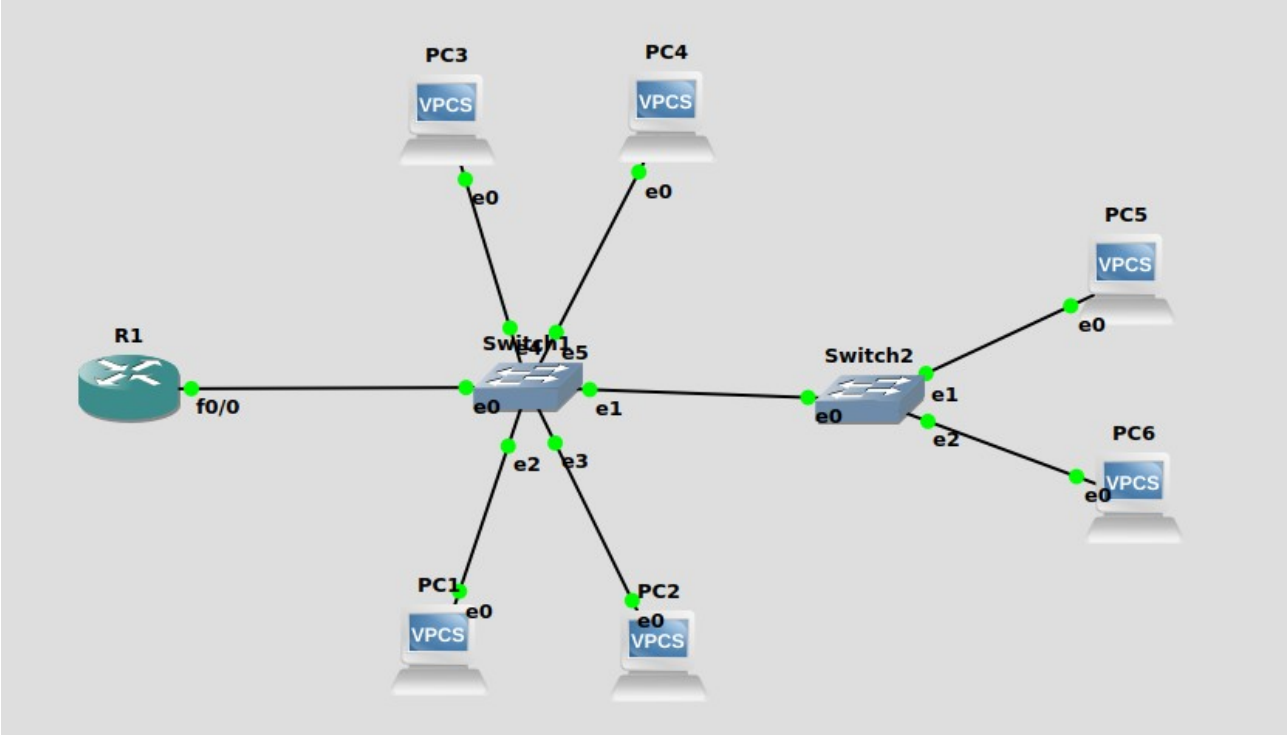
```
PC3> ip 192.168.1.67/26 192.168.1.65
Checking for duplicate address...
PC3 : 192.168.1.67 255.255.255.192 gateway 192.168.1.65
```

```
PC3> ip 192.168.1.130/27  192.168.1.129
Checking for duplicate address...
PC3 : 192.168.1.130 255.255.255.224 gateway 192.168.1.129
```

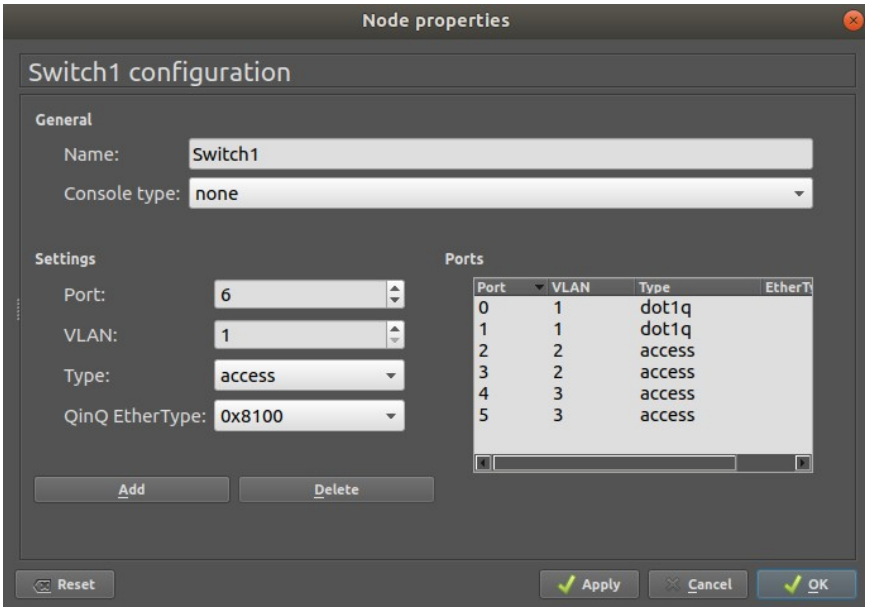
WIRESHARK OBSERVATION



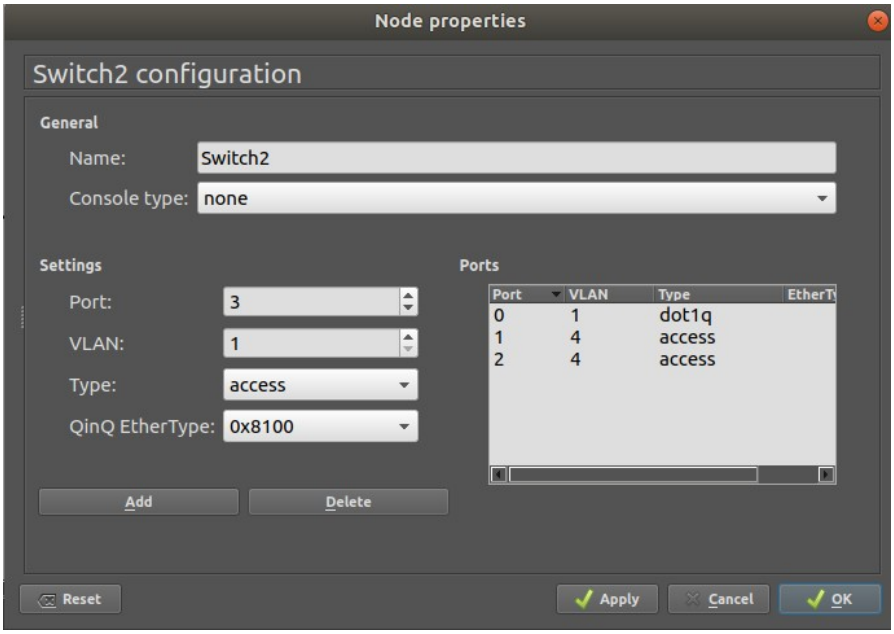
QUESTION-2
GNS3 DIAGRAM



SWITCHES CONFIG
Switch 1:



Switch 2:


Node properties
Switch2 configuration
General
Name:
Switch2
Console type:
none
Settings
Port:
3
VLAN:
1
Type:
access
QinQ EtherType:
0x8100
Add
Delete
Ports
Port
VLAN
Type
EtherT
0
1
dot1q
1
4
access
2
4
access
Reset
Apply
Cancel
OK