## Experiment 2.3

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**Branch: CSE**                                        **Section/Group:611 A**

**Semester: 4ᵗʰ**
                                                              **Date of Performance: 26/04/2023**
**Subject Name: Subject Code: 21CSH-256**


**Aim:**

Configure a network using Distance Vector routing Protocol using Packet Tracer orNS2

**Screenshot of Outputs:**
**IP CONFIG: -**

Physical  Config  Desktop  Programming  Attributes

IP Configuration                                              X

Interface   FastEthernet0

**IP Configuration**

○ DHCP        ● Static

IP Address          192.168.10.2

Subnet Mask         255.255.255.0

Default Gateway     0.0.0.0

DNS Server          0.0.0.0

**IPv6 Configuration**

○ DHCP   ○ Auto Config   ● Static

IPv6 Address

Link Local Address    FE80::2D0:D3FF:FED9:2554

IPv6 Gateway

IPv6 DNS Server

**802.1X**

☐ Use 802.1X Security

Authentication    MD5

☐ Top

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Router5                          —  ☐  ✕

Physical   Config   CLI

GLOBAL
Settings
gorithm Settin
ROUTING
Static
RIP
INTERFACE
astEthernet0/
astEthernet1/
Serial2/0
Serial3/0
astEthernet4/

**Static Routes**

Network   11.0.0.0

Mask      255.0.0.0

Next Hop  20.20.20.2

                                  Add

Network Address

11.0.0.0/8 via 20.20.20.2
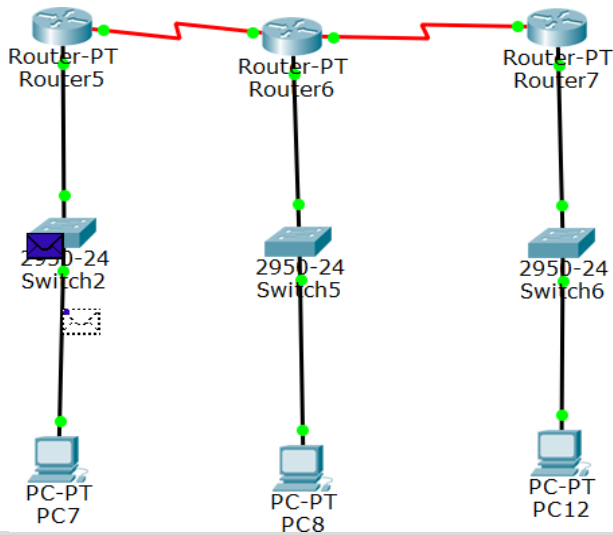
                                  Remove

Equivalent IOS Commands

```
Router(config)#
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#
Router(config)#
```

Router-PT
Router5

Router-PT
Router6

Router-PT
Router7

2950-24
Switch2

2950-24
Switch5

2950-24
Switch6

PC-PT
PC7

PC-PT
PC8

PC-PT
PC12

**Event List**

| Vis. | Time(sec) | Last De | At Dev | Type | Info |
|------|-----------|---------|--------|------|------|
|      | 0.003     | Router9 | Rout...| ICMP |      |
|      | 0.004     | Route...| Switc...| ICMP |     |
|      | 0.005     | Switch8 | PC16   | ICMP |      |
|      | 0.006     | PC16    | Switc...| ICMP |     |
| 👁   | 0.007     | Switch8 | Rout...| ICMP |      |

Reset Simulation  ☑ Constant Delay

Captured to: *
0.007 s

**Play Controls**

| Back | Auto Capture / Play | Capture / Forward |
|------|---------------------|-------------------|

**Event List Filters - Visible Events**

ACL Filter, ARP, BGP, CDP, DHCP, DHCPv6, DNS, DTP, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPSec, ISAKMP, LACP, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, RADIUS, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, VTP

| Edit Filters | Show All/None |
|--------------|---------------|

**Learning Outcomes: -**

**1.** I have learned the basic concepts of Routing.

**2.** I have learned how to implement the static routing.
**3.** Learnt How routing work in real world scenario.