Group Number: 1
Section: 7
Project Topic: 2
Project Title: ISP company: "Fastest"

Member Information:

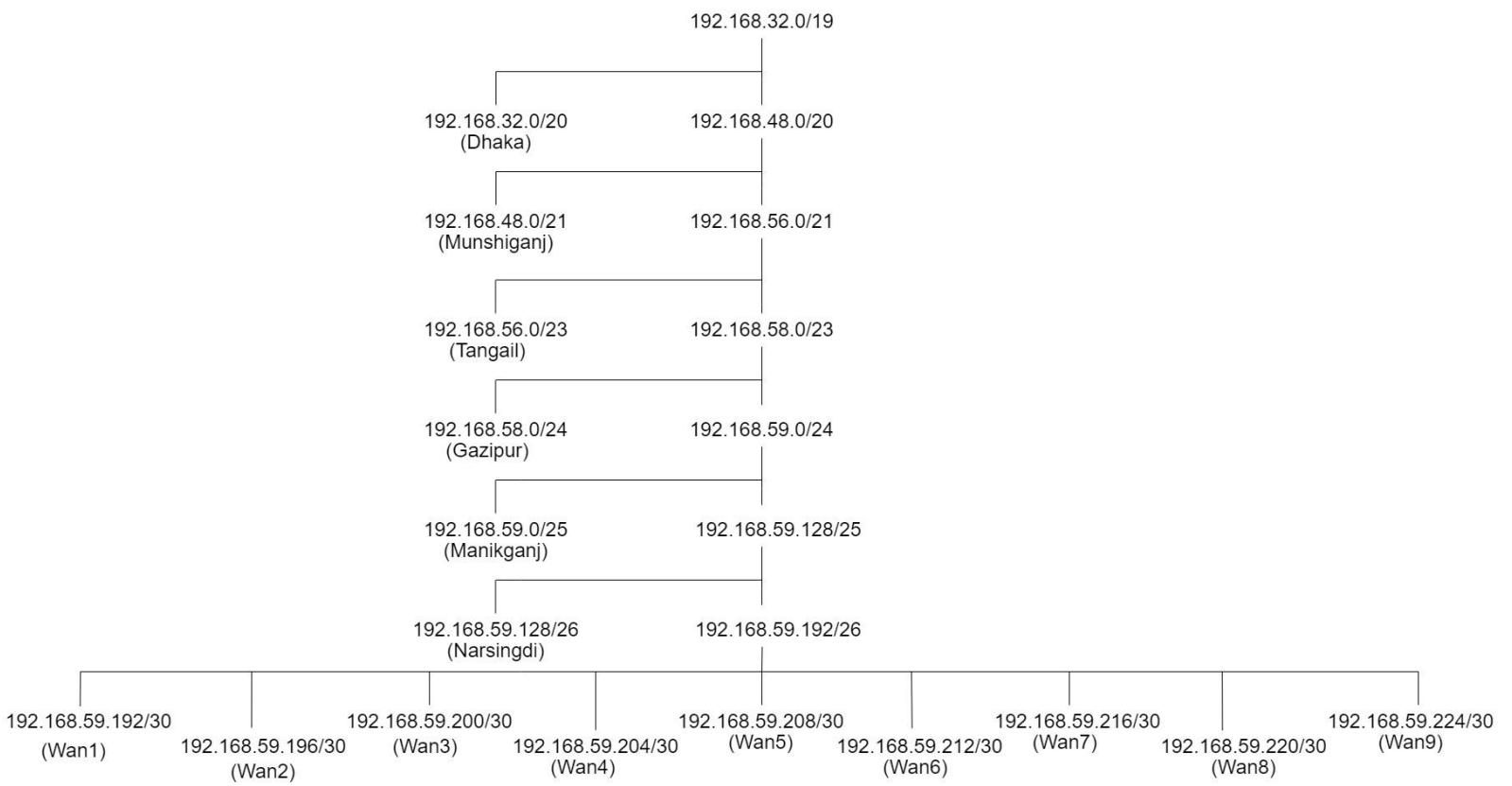| Name	Id
Partha Bhoumik	19101415
Sukarna Sarker	19301201
K.M. Abdullah Al Maruf	19101487
Sadia Tasnim	19101526

Topology Figure:
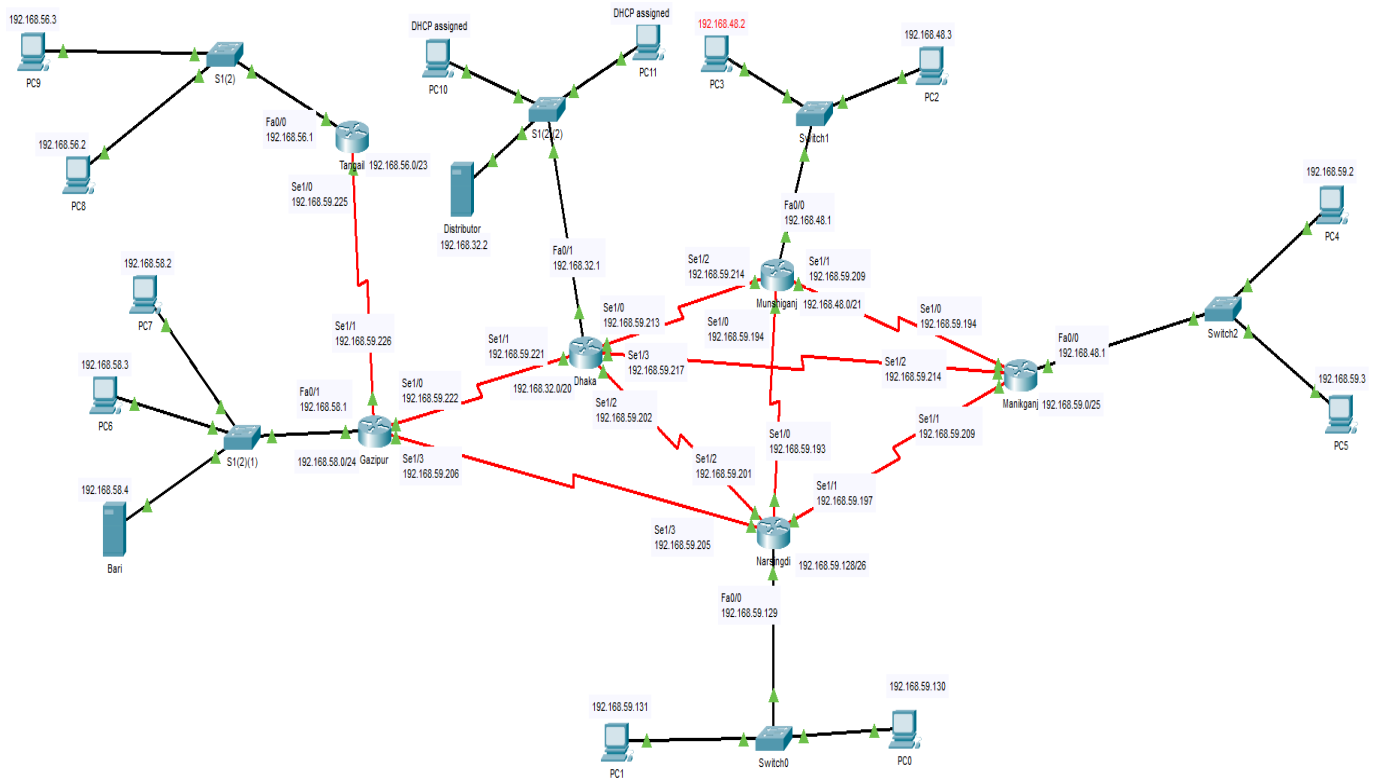
VLSM Configuration Table

Area/ Router Name	# of Hosts	#of Hosts + 2	# of Host as power of 2	# of host bits	# of network bits	Network Address	Subnet Mask
Dhaka	2048	2050	4096	12	20	192.168.32.0/20	255.255.240.0
Munshiganj	1024	1026	2048	11	21	192.168.48.0/21	255.255.248.0
Tangail	256	258	512	9	23	192.168.56.0/23	255.255.254.0
Gazipur	128	130	256	8	24	192.168.58.0/24	255.255.255.0
Manikganj	64	66	128	7	25	192.168.59.0/25	255.255.255.128
Narsingdi	32	34	64	6	26	192.168.59.128/26	255.255.255.192
Wan1	2	4	4	2	30	192.168.59.192/30	255.255.255.252
Wan2	2	4	4	2	30	192.168.59.196/30	255.255.255.252
Wan3	2	4	4	2	30	192.168.59.200/30	255.255.255.252
Wan4	2	4	4	2	30	192.168.59.204/30	255.255.255.252
Wan5	2	4	4	2	30	192.168.59.208/30	255.255.255.252
Wan6	2	4	4	2	30	192.168.59.212/30	255.255.255.252
Wan7	2	4	4	2	30	192.168.59.216/30	255.255.255.252
Wan8	2	4	4	2	30	192.168.59.220/30	255.255.255.252
Wan9	2	4	4	2	30	192.168.59.224/30	255.255.255.252

Area/ Router Name	Network Address	Subnet Mask
Dhaka	192.168.32.0/20	255.255.240.0
Munshiganj	192.168.48.0/21	255.255.248.0
Tangail	192.168.56.0/23	255.255.254.0
Gazipur	192.168.58.0/24	255.255.255.0
Manikganj	192.168.59.0/25	255.255.255.128
Narsingdi	192.168.59.128/26	255.255.255.192
Wan1(Munshiganj-Narsingdi) *(se1/0-se1/0)*	192.168.59.192/30	255.255.255.252
Wan2(Narsingdi-Manik)*(se1/1-se1/1)*	192.168.59.196/30	255.255.255.252
Wan3(Narsingdi-Dhaka)*(se1/2-se1/2)*	192.168.59.200/30	255.255.255.252
Wan4(Narsingdi-Gazipur)*(se1/3-se1/3)*	192.168.59.204/30	255.255.255.252
Wan5(Munshiganj-Manikganj)*(se1/1- Se1/0)*	192.168.59.208/30	255.255.255.252
Wan6 (Dhaka-Munshiganj)*(se1/0-se1/2)*	192.168.59.212/30	255.255.255.252
Wan7(Dhaka - Manikganj)*(se1/3-se1/2)*	192.168.59.216/30	255.255.255.252
Wan8(Dhaka-Gazipur)*(Se1/1 - Se1/0)*	192.168.59.220/30	255.255.255.252
Wan9(Tangail - Gazipur)*(Se1/0-Se1/1)*	192.168.59.224/30	255.255.255.252

VLSM Tree

192.168.32.0/19

192.168.32.0/20
(Dhaka)

192.168.48.0/20

192.168.48.0/21
(Munshiganj)

192.168.56.0/21

192.168.56.0/23
(Tangail)

192.168.58.0/23

192.168.58.0/24
(Gazipur)

192.168.59.0/24

192.168.59.0/25
(Manikganj)

192.168.59.128/25

192.168.59.128/26
(Narsingdi)

192.168.59.192/26

192.168.59.192/30
(Wan1)

192.168.59.196/30
(Wan2)

192.168.59.200/30
(Wan3)

192.168.59.204/30
(Wan4)

192.168.59.208/30
(Wan5)

192.168.59.212/30
(Wan6)

192.168.59.216/30
(Wan7)

192.168.59.220/30
(Wan8)

192.168.59.224/30
(Wan9)

IP Addressing Table

Device	Interface	IPv4 Address	Subnet Mask	Default Gateway
Narsingdi	Fa0/0	192.168.59.129	255.255.255.192	N/A
	Se1/0	192.168.59.193	255.255.255.252	N/A
	Se1/1	192.168.59.197	255.255.255.252	N/A
	Se1/2	192.168.59.201	255.255.255.252	N/A
	Se1/3	192.168.59.205	255.255.255.252	N/A
Munshiganj	Fa0/0	192.168.48.1	255.255.248.0	N/A
	Se1/0	192.168.59.194	255.255.255.252	N/A
	Se1/1	192.168.59.209	255.255.255.252	N/A
	Se1/2	192.168.59.214	255.255.255.252	N/A
Manikganj	Fa0/0	192.168.59.1	255.255.255.128	N/A
	Se1/0	192.168.59.210	255.255.255.252	N/A
	Se1/1	192.168.59.198	255.255.255.252	N/A
	Se1/2	192.168.59.218	255.255.255.252	N/A
Dhaka	Fa0/1	192.168.32.1	255.255.240.0	N/A
	Se1/0	192.168.59.213	255.255.255.252	N/A
	Se1/1	192.168.59.221	255.255.255.252	N/A
	Se1/2	192.168.59.202	255.255.255.252	N/A
	Se1/3	192.168.59.217	255.255.255.252	N/A

Device	Interface	IPv4 Address	Subnet Mask	Default Gateway
Gazipur	Fa0/1	192.168.58.1	255.255.255.0	N/A
	Se1/0	192.168.59.222	255.255.255.252	N/A
	Se1/1	192.168.59.226	255.255.255.252	N/A
	Se1/3	192.168.59.206	255.255.255.252	N/A
Tangail	Fa0/0	192.168.56.1	255.255.254.0	N/A
	Se1/0	192.168.59.225	255.255.255.252	N/A
PC0		192.168.59.130	255.255.255.0	192.168.59.129
PC1		192.168.59.131	255.255.255.0	192.168.59.129
PC2		192.168.48.3	255.255.255.0	192.168.48.1
PC3		192.168.48.2	255.255.255..0	192.168.48.1
PC4		192.168.59.2	255.255.255.0	192.168.59.1
PC5		192.168.59.3	255.255.255.0	192.168.59.1
PC6		192.168.58.3	255.255.255.0	192.168.58.1
PC7		192.168.58.2	255.255.255.0	192.168.58.1
PC8		192.168.56.2	255.255.255.0	192.168.56.1
PC9		192.168.56.3	255.255.255.0	192.168.56.1
PC10		DHCP assigned	DHCP assigned	DHCP assigned
PC11		DHCP assigned	DHCP assigned	DHCP assigned
Distributor		192.168.32.2	255.255.255.0	192.168.32.1
Bari		192.168.58.4	255.255.255.0	192.168.58.1

Commands

1.Router Configuration
1. 1 Narsingdi router:
Fa0/0 configuration:
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname Narsingdi
Narsingdi(config)#
Narsingdi(config)#no ip domain-lookup
Narsingdi(config)#interface FastEthernet0/0
Narsingdi(config-if)#interface FastEthernet0/0
Narsingdi(config-if)#ip address 192.168.59.129 255.255.255.192
Narsingdi(config-if)#no shut
Narsingdi(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed
state to up
Narsingdi#
%SYS-5-CONFIG_I: Configured from console by console
Narsingdi(config-if)#exit
Narsingdi(config)#exit
Narsingdi#
%SYS-5-CONFIG_I: Configured from console by console

Se1/0 configuration:
Narsingdi#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Narsingdi(config)#interface s1/0
Narsingdi(config-if)#ip address 192.168.59.193 255.255.255.252
Narsingdi(config-if)#no shut
%LINK-5-CHANGED: Interface Serial1/0, changed state to down
Narsingdi(config-if)#
Narsingdi(config-if)#exit
Narsingdi(config)#

Se1/1 configuration:

Narsingdi#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Narsingdi(config)#interface Se1/1
Narsingdi(config-if)#ip address 192.168.59.197 255.255.255.252
Narsingdi(config-if)#no shut
%LINK-5-CHANGED: Interface Serial1/1, changed state to down
Narsingdi(config-if)#exit
Narsingdi(config)#

Se1/2 configuration:

Narsingdi#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Narsingdi(config)#interface Se1/2
Narsingdi(config-if)#ip address 192.168.59.201 255.255.255.252
Narsingdi(config-if)#no shut
%LINK-5-CHANGED: Interface Serial1/2, changed state to down
Narsingdi(config-if)#exit

Se1/3 configuration:

Narsingdi#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Narsingdi(config)#interface se1/3
Narsingdi(config-if)#ip address 192.168.59.205 255.255.255.252
Narsingdi(config-if)#no shut
%LINK-5-CHANGED: Interface Serial1/3, changed state to down
Narsingdi(config-if)#exit

1.2 Munshiganj router:
Fa0/0 configuration:

Munshiganj>en
Munshiganj#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Munshiganj(config)#interface Fa0/0
Munshiganj(config-if)#ip address 192.168.48.1 255.255.248.0
Munshiganj(config-if)#no shut
Munshiganj(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed
state to up

Se1/0 configuration

Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname Munshiganj
Munshiganj(config)#interface Se0/1
%Invalid interface type and number
Munshiganj(config)#interface Se1/0
Munshiganj(config-if)#ip address 192.168.59.194 255.255.255.252
Munshiganj(config-if)#no shut
Munshiganj(config-if)#
%LINK-5-CHANGED: Interface Serial1/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/0, changed state to u^Z
Munshiganj#
%SYS-5-CONFIG_I: Configured from console by console
Munshiganj#exit

Se1/1 configuration:

Munshiganj>en
Munshiganj#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Munshiganj(config)#interface Se1/1
Munshiganj(config-if)#ip address 192.168.59.209 255.255.255.252
Munshiganj(config-if)#no shut
%LINK-5-CHANGED: Interface Serial1/1, changed state to down
Munshiganj(config-if)#exit

Se1/2 configuration:

Munshiganj>en
Munshiganj#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Munshiganj(config)#interface Se1/2
Munshiganj(config-if)#ip address 192.168.59.214 255.255.255.252
Munshiganj(config-if)#no shut
Munshiganj(config-if)#
%LINK-5-CHANGED: Interface Serial1/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/2, changed state to up
Munshiganj(config-if)#exit

1.3 Manikganj router:

Fa0/0 configuration:

Manikganj>en
Manikganj#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Manikganj(config)#interface Fa0/0
Manikganj(config-if)#ip address 192.168.59.1 255.255.255.128
Manikganj(config-if)#no shut
Manikganj(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed
state to up
Manikganj(config-if)#exit
Manikganj(config)#

Se1/0 configuration:

Manikganj>en
Manikganj#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Manikganj(config)#interface Se1/0
Manikganj(config-if)#ip address 192.168.59.210 255.255.255.252
Manikganj(config-if)#no shut
Manikganj(config-if)#
%LINK-5-CHANGED: Interface Serial1/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/0, changed state to up
Manikganj(config-if)#exit

Se1/1 configuration:

Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname Manikganj
Manikganj(config)#interface Se1/1
Manikganj(config-if)#ip address 192.168.59.198 255.255.255.252
Manikganj(config-if)#no shut
Manikganj(config-if)#
%LINK-5-CHANGED: Interface Serial1/1, changed state to up
Manikganj(config-if)#exit
Manikganj(config)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/1, changed state to up

Se1/2 configuration:
Manikganj>en
Manikganj#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Manikganj(config)#interface Se1/2
Manikganj(config-if)#ip address 192.168.59.218 255.255.255.252
Manikganj(config-if)#no shut
Manikganj(config-if)#
%LINK-5-CHANGED: Interface Serial1/2, changed state to up
Manikganj(config-if)#ecit
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/2, changed state to up
% Invalid input detected at '^' marker.
Manikganj(config-if)#exit
Manikganj(config)#

1.4 Dhaka router:
Fa0/1 configuration:
Dhaka>en
Dhaka#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Dhaka(config)#interface Fa0/1
Dhaka(config-if)#ip address 192.168.32.1 255.255.240.0
Dhaka(config-if)#no shut
Dhaka(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
Dhaka(config-if)#exit
Dhaka(config)#

Se1/0 configuration:
Dhaka>en
Dhaka#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Dhaka(config)#interface Se1/0
Dhaka(config-if)#ip address 192.168.59.213 255.255.255.252
Dhaka(config-if)#no shut
%LINK-5-CHANGED: Interface Serial1/0, changed state to down
Dhaka(config-if)#exit

Se1/1 configuration:

Dhaka#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Dhaka(config)#interface Se1/1
Dhaka(config-if)#ip address 192.168.59.221 255.255.255.252
Dhaka(config-if)#no shut
%LINK-5-CHANGED: Interface Serial1/1, changed state to down
Dhaka(config-if)#exit
Dhaka(config)#

Se1/2 configuration:

Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname Dhaka
Dhaka(config)#interface Se1/2
Dhaka(config-if)#ip address 192.168.59.202 255.255.255.252
Dhaka(config-if)#no shut
Dhaka(config-if)#
%LINK-5-CHANGED: Interface Serial1/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/2, changed state to up
Dhaka(config-if)#exit

Se1/3 configuration:

Dhaka>en
Dhaka#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Dhaka(config)#interface Se1/3
Dhaka(config-if)#ip address 192.168.59.217 255.255.255.252
Dhaka(config-if)#no shut
%LINK-5-CHANGED: Interface Serial1/3, changed state to down
Dhaka(config-if)#exit
Dhaka(config)#

1.5 Gazipur router:
Fa0/1 configuration:
Gazipur>en
Gazipur#config t
Enter configuration commands, one per line. End with CNTL/Z.
Gazipur(config)#interface Fa0/1
Gazipur(config-if)#ip address 192.168.58.1 255.255.255.0
Gazipur(config-if)#no shut
Gazipur(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state
to up
Gazipur(config-if)#exit
Gazipur(config)#

Se1/0 configuration:
Gazipur>en
Gazipur#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Gazipur(config)#interface
% Incomplete command.
Gazipur(config)#interface S1/0
Gazipur(config-if)#ip address 192.168.59.222 255.255.255.252
Gazipur(config-if)#no shut
Gazipur(config-if)#
%LINK-5-CHANGED: Interface Serial1/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/0, changed state to up
Gazipur(config-if)#exit
Gazipur(config)#

Se1/1 configuration:
Gazipur#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Gazipur(config)#interface Se1/1
Gazipur(config-if)#ip address 192.168.59.226 255.255.255.252
Gazipur(config-if)#no shut
Gazipur(config-if)#
%LINK-5-CHANGED: Interface Serial1/1, changed state to up
Gazipur(config-if)#exit
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/1, changed state to up
Gazipur(config)#

Se1/3 configuration:
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname Gazipur
Gazipur(config)#interface Se1/3
Gazipur(config-if)#ip address 192.168.59.206 255.255.255.252
Gazipur(config-if)#no shut
Gazipur(config-if)#
%LINK-5-CHANGED: Interface Serial1/3, changed state to up
Gazipur(config-if)#exit
Gazipur(config)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/3, changed state to up

1.6 Tangail router:
Fa0/0 configuration:
Tangail>en
Tangail#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Tangail(config)#interface Fa0/0
Tangail(config-if)#ip address 192.168.56.1 255.255.254.0
Tangail(config-if)#no shut
Tangail(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed
state to up
Tangail(config-if)#exit
Tangail(config)#

Se1/0 configuration:
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname Tangail
Tangail(config)#interface Se1/0
Tangail(config-if)#ip address 192.168.59.225 255.255.255.252
Tangail(config-if)#no shut
%LINK-5-CHANGED: Interface Serial1/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/0, changed state to up

2. Dynamic routing configuration
2.1 Dynamic routing tangail router config:
Tangail>en
Tangail#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Tangail(config)#router rip
Tangail(config-router)#version 2
Tangail(config-router)#no auto-summary
Tangail(config-router)#network 192.168.56.0
Tangail(config-router)#network 192.168.59.224
Tangail(config-router)#end
Tangail#
%SYS-5-CONFIG_I: Configured from console by console
Tangail#

2.2 Dynamic routing gazipur router config:
Gazipur>en
Gazipur#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Gazipur(config)#router rip
Gazipur(config-router)#version 2
Gazipur(config-router)#no auto-summary
Gazipur(config-router)#network 192.168.58.0
Gazipur(config-router)#network 192.168.59.224
Gazipur(config-router)#end
Gazipur#
%SYS-5-CONFIG_I: Configured from console by console
Gazipur#

3.Static routing configuration
3.1 Static routing Munshiganj router config:
Munshiganj>en
Munshiganj#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Munshiganj(config)#ip route 192.168.59.128 255.255.255.192 192.168.59.193
Munshiganj(config)#ip route 192.168.59.0 255.255.255.128 192.168.59.210
Munshiganj(config)#ip route 192.168.59.196 255.255.255.252 192.168.59.193
Munshiganj(config)#end
Munshiganj#
%SYS-5-CONFIG_I: Configured from console by console
Munshiganj#

3.2 Static routing Manikganj router config:

```
Manikganj>en
Manikganj#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Manikganj(config)#ip route 192.168.48.0 255.255.248.0 192.168.59.209
Manikganj(config)#ip route 192.168.59.128 255.255.255.192 192.168.59.197
Manikganj(config)#ip route 192.168.59.192 255.255.255.252 192.168.59.197
Manikganj(config)#end
Manikganj#
%SYS-5-CONFIG_I: Configured from console by console
Manikganj#
```

3.3 Static routing Narsingdi router config:

```
Narsingdi>en
Narsingdi#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Narsingdi(config)#ip route 192.168.48.0 255.255.248.0 192.168.59.194
Narsingdi(config)#ip route 192.168.59.0 255.255.255.128 192.168.59.198
Narsingdi(config)#ip route 192.168.59.208 255.255.255.252 192.168.59.194
Narsingdi(config)#end
Narsingdi#
%SYS-5-CONFIG_I: Configured from console by console
Narsingdi#
```

4.Setting up DHCP server for Dhaka:

```
Dhaka>en
Dhaka#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Dhaka(config)#ip dhcp excluded-address 192.168.32.1 192.168.32.20
Dhaka(config)#ip dhcp pool Dhaka-Lan
Dhaka(dhcp-config)#network 192.168.32.0 255.255.240.0
Dhaka(dhcp-config)#default-router 192.168.32.1
Dhaka(dhcp-config)#exit
Dhaka(config)#
```

5.Setting up Bari web server for Gazipur:

```
<html>
<center><font size='+2' color='blue'>Welcome to Gazipur</font></center>
</html>
```

6.Connecting Dhaka with the two groups:

Munshiganj:
Munshiganj>en
Munshiganj#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Munshiganj(config)#ip route 192.168.32.0 255.255.240.0 192.168.59.213
Munshiganj(config)#ip route 192.168.59.220 255.255.255.252 192.168.59.213
Munshiganj(config)#
Munshiganj con0 is now available
Press RETURN to get started.

Munshiganj>en
Munshiganj#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Munshiganj(config)#ip route 192.168.59.200 255.255.255.252 192.168.59.193
Munshiganj(config)#
Munshiganj con0 is now available
Press RETURN to get started.

Munshiganj>enable
Munshiganj#
Munshiganj#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Munshiganj(config)#
Munshiganj con0 is now available
Press RETURN to get started.

Munshiganj>en
Munshiganj#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Munshiganj(config)#ip route 192.168.58.0 255.255.255.0 192.168.59.213
Munshiganj(config)#ip route 192.168.56.0 255.255.254.0 192.168.59.213
Munshiganj(config)#
Munshiganj con0 is now available
Press RETURN to get started.

Manikganj:

Manikganj>en
Manikganj#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Manikganj(config)#ip route 192.168.32.0 255.255.240.0 192.168.59.217
Manikganj(config)#ip route 192.168.59.220 255.255.255.252 192.168.59.217
Manikganj(config)#
Manikganj con0 is now available
Press RETURN to get started.

Manikganj>en
Manikganj#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Manikganj(config)#ip route 192.168.59.212 255.255.255.252 192.168.59.209
Manikganj(config)#ip route 192.168.59.200 255.255.255.252 192.168.59.197
Manikganj(config)#

Manikganj(config)#interface Serial1/0
Manikganj(config-if)#clock rate 64000
This command applies only to DCE interfaces
Manikganj(config-if)#
Manikganj(config-if)#exit

Manikganj(config)#interface Serial1/1
Manikganj(config-if)#clock rate 64000
This command applies only to DCE interfaces
Manikganj(config-if)#
Manikganj(config-if)#exit

Manikganj(config)#interface Serial1/2
Manikganj(config-if)#clock rate 64000
This command applies only to DCE interfaces
Manikganj(config-if)#
Manikganj(config-if)#exit

Manikganj(config)#interface Serial1/3
Manikganj(config-if)#clock rate 64000

Manikganj(config-if)#
Manikganj(config-if)#exit

Manikganj(config)#interface Serial1/3
Manikganj(config-if)#
Manikganj(config-if)#exit
Manikganj(config)#interface Serial1/0
Manikganj(config-if)#
Manikganj(config-if)#exit

Manikganj(config)#interface Serial1/1
Manikganj(config-if)#
Manikganj(config-if)#exit

Manikganj(config)#interface Serial1/2
Manikganj(config-if)#
Manikganj(config-if)#exit

Manikganj(config)#interface Serial1/3
Manikganj(config-if)#
Manikganj(config-if)#exit

Manikganj(config)#interface FastEthernet0/0
Manikganj(config-if)#
Manikganj(config-if)#exit

Manikganj(config)#interface FastEthernet0/1
Manikganj(config-if)#
Manikganj con0 is now available
Press RETURN to get started.

Manikganj>en
Manikganj#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Manikganj(config)#ip route 192.168.58.0 255.255.255.0 192.168.59.217
Manikganj(config)#
Manikganj con0 is now available
Press RETURN to get started.

Manikganj>en
Manikganj#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Manikganj(config)#ip route 192.168.56.0 255.255.254.0 192.168.59.217
Manikganj(config)#
Manikganj con0 is now available
Press RETURN to get started.

Narsingdhi

Narsingdi>en
Narsingdi#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Narsingdi(config)#ip route 192.168.32.0 255.255.240.0 192.168.59.213
Narsingdi(config)#no ip route 192.168.32.0 255.255.240.0 192.168.59.213
Narsingdi(config)#ip route 192.168.32.0 255.255.240.0 192.168.59.202
Narsingdi(config)#o[oip route 192.168.59.220 255.255.255.252 192.168.59.202
Narsingdi(config)#
Narsingdi con0 is now available
Press RETURN to get started.

Narsingdi>enable
Narsingdi#
Narsingdi#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Narsingdi(config)#
Narsingdi con0 is now available
Press RETURN to get started.

Narsingdi>enable
Narsingdi#
Narsingdi#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Narsingdi(config)#interface Serial1/0
Narsingdi(config-if)#
Narsingdi(config-if)#exit
Narsingdi(config)#interface Serial1/3

Narsingdi(config-if)#shutdown
Narsingdi(config-if)#
%LINK-5-CHANGED: Interface Serial1/3, changed state to administratively
down
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/3, changed state
to down
Narsingdi(config-if)#ip route 192.168.59.212 255.255.255.252 192.168.59.194
Narsingdi(config)#
Narsingdi con0 is now available
Press RETURN to get started.

Narsingdi>en
Narsingdi#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Narsingdi(config)#ip route 192.168.58.0 255.255.255.0 192.168.59.202
Narsingdi(config)#ip route 192.168.56.0 255.255.254.0
% Incomplete command.
Narsingdi(config)#ip route 192.168.56.0 255.255.254.0 192.168.59.202
Narsingdi(config)#
Narsingdi con0 is now available
Press RETURN to get started.

Narshingdi to Gazipur Administrative Distance:

Narshingdhi:

Narsingdi>en
Narsingdi#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Narsingdi(config)#ip route 192.168.58.0 255.255.255.0 192.168.59.206 100
Narsingdi(config)#

Gazipur
Gazipur>enable
Gazipur#
Gazipur#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.

Gazipur(config)#interface Serial1/3
Gazipur(config-if)#ip route 192.168.59.128 255.255.255.192 192.168.59.205 100
Gazipur(config)#

Routing unknown ip to dhaka:

Tangail:
Tangail>en
Tangail#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Tangail(config)#ip route 0.0.0.0 0.0.0.0 192.168.59.226
Tangail(config)#

Gazipur:
Gazipur>en
Gazipur#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Gazipur(config)#ip route 0.0.0.0 0.0.0.0 192.168.59.221
Gazipur(config)#

Munshiganh:
Munshiganj>en
Munshiganj#config t
Enter configuration commands, one per line. End with CNTL/Z.
Munshiganj(config)#ip route 0.0.0.0 0.0.0.0 192.168.59.213
Munshiganj(config)#

Manikganj:
Manikganj>en
Manikganj#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Manikganj(config)#ip route 0.0.0.0 0.0.0.0 192.168.59.217
Manikganj(config)#

Narshingdi:

```
Narsingdi>en
Narsingdi#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Narsingdi(config)#ip route 0.0.0.0 0.0.0.0 192.168.59.202
Narsingdi(config)#
```