LAB TASK FLOATING & SUMMARY

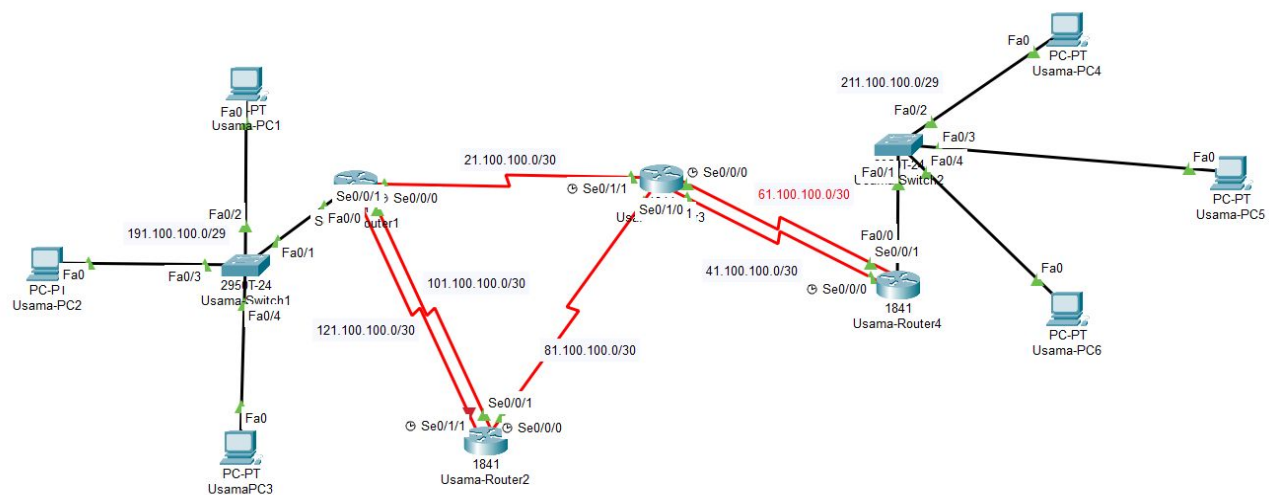Name :- Usama Rehman

SID :- 9894

NETWORK DIAGRAM

Fa0
PC-PT
Usama-PC4

211.100.100.0/29

Fa0
Usama-PC1

Fa0/2

Fa0/3
Fa0/4
Switch2

21.100.100.0/30

Se0/0/0

Se0/1/1

Se0/0/0

Fa0
PC-PT
Usama-PC5

Se0/0/1
Se0/0/0

Fa0/2

191.100.100.0/29

S Fa0/0 Router1

61.100.100.0/30

Fa0
PC-PT
Usama-PC2

Fa0/3 2950T-24
Usama-Switch1

Fa0/1

Se0/1/0 1 3

Fa0/0
Se0/0/1

Fa0
Usama-PC6

Fa0/4

101.100.100.0/30

41.100.100.0/30

Se0/0/0

121.100.100.0/30

1841
Usama-Router4

81.100.100.0/30

Fa0

Se0/0/1

PC-PT
UsamaPC3

Se0/1/1   Se0/0/0

1841
Usama-Router2

Physical   Config   CLI   Attributes

IOS Command Line Interface

```
Router>enable
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname Usama
Usama(config)#interface serial 0/0/0
Usama(config-if)#ip address 121.100.100.1 255.255.255.252
Usama(config-if)#clock rate 64000
Usama(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to down
Usama(config-if)#
Usama(config-if)#exit
Usama(config)#interface serial 0/0/1
Usama(config-if)#ip address 21.100.100.2 255.255.255.252
Usama(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial0/0/1, changed state to down
Usama(config-if)#exit
Usama(config)#interface fa 0/0
Usama(config-if)#ip address 191.100.100.1 255.255.255.248
Usama(config-if)#no shutdown

Usama(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

Usama(config-if)#exit
Usama(config)#sc
```

Ctrl+F6 to exit CLI focus   Copy   Paste

☐ Top

Physical   Config   CLI   Attributes

IOS Command Line Interface

```
Press RETURN to get started!



Router>enable
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname Usama
Usama(config)#interface serial 0/0/0
Usama(config-if)#ip address 81.100.100.100.1 255.255.255.252
                                   ^
% Invalid input detected at '^' marker.

Usama(config-if)#ip address 81.100.100.1 255.255.255.252
Usama(config-if)#clock rate 64000
Usama(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to down
Usama(config-if)#
Usama(config-if)#exit
Usama(config)#interface serial 0/0/1
Usama(config-if)#ip address 121.100.100.2 255.255.255.252
Usama(config-if)#no shutdown

Usama(config-if)#
%LINK-5-CHANGED: Interface Serial0/0/1, changed state to up

Usama(config-if)#exit
Usama(config)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/1,
changed state to up
```

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Usama-Router3

Physical   Config   CLI   Attributes

IOS Command Line Interface

```
Router>enable
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname Usama
Usama(config)#interface serial 0/0/0
Usama(config-if)#ip address 41.100.100.1 255.255.255.252
Usama(config-if)#clock rate 64000
Usama(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to down
Usama(config-if)#exit
Usama(config)#interface serial 0/1/0
Usama(config-if)#ip address 61.100.100.100.2 255.255.255.252
                              ^
% Invalid input detected at '^' marker.

Usama(config-if)#ip address 61.100.100.2 255.255.255.252
Usama(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial0/1/0, changed state to down
Usama(config-if)#exit
Usama(config)#interface serial 0/0/1
Usama(config-if)#ip address 81.100.100.2 255.255.255.252
Usama(config-if)#no shutdown

Usama(config-if)#
%LINK-5-CHANGED: Interface Serial0/0/1, changed state to up

Usama(config-if)#exit
Usama(config)#interfac
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/1,
changed stat
Usama(config)#interface serial 0/1/1
Usama(config-if)#ip address 21.100.100.1 255.255.255.252
Usama(config-if)#clock rate 64000
Usama(config-if)#no shutdown

Usama(config-if)#
%LINK-5-CHANGED: Interface Serial0/1/1, changed state to up

Usama(config-if)#exit
Usama(config)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/1,
changed state to up
```

Ctrl+F6 to exit CLI focus   Copy   Paste

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Physical   Config   CLI   Attributes

IOS Command Line Interface

```
Router>enable
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname Usama
Usama(config)#interface serial 0/0/0
Usama(config-if)#ip address 61.100.100.1 255.255.255.252
Usama(config-if)#clock rate 64000
Usama(config-if)#no shutdown

Usama(config-if)#
%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

Usama(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0,
changed state to up

Usama(config-if)#exit
Usama(config)#interface serial 0/0/1
Usama(config-if)#ip address 41.100.100.2 255.255.255.252
Usama(config-if)#no shutdown

Usama(config-if)#
%LINK-5-CHANGED: Interface Serial0/0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/1,
changed state to up

Usama(config-if)#exit
Usama(config)#interface fa 0/0
Usama(config-if)#ip address 211.100.100.1 255.255.255.248
Usama(config-if)#no shutdown

Usama(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

Usama(config-if)#exit
Usama(config)#
```

Ctrl+F6 to exit CLI focus   Copy   Paste

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Routing

```
Usama(config)#ip route 41.100.100.0 255.255.255.252 21.100.100.1
5
Usama(config)#ip route 81.100.100.0 255.255.255.252 21.100.100.1
10
Usama(config)#ip route 211.100.100.0 255.255.255.248 21.100.100.1
10
Usama(config)#ip route 211.100.100.0 255.255.255.248 21.100.100.1
Usama(config)#exit
Usama#
%SYS-5-CONFIG_I: Configured from console by console
```

Ctrl+F6 to exit CLI focus   Copy   Paste

```
Usama(config)#ip route 191.100.100.0 255.255.255.248
121.100.100.1
Usama(config)#ip route 41.100.100.0 255.255.255.252 81.100.100.2
5
Usama(config)#ip route 61.100.100.0 255.255.255.252 81.100.100.2
10
Usama(config)#ip route 211.100.100.0 255.255.255.248 81.100.100.2
Usama(config)#exit
Usama#
%SYS-5-CONFIG_I: Configured from console by console
```

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```
Usama(config)#ip route 191.100.100.0 255.255.255.248 21.100.100.2
Usama(config)#ip route 211.100.100.0 255.255.255.248 41.100.100.2
5
Usama(config)#ip route 211.100.100.0 255.255.255.248 41.100.100.2
10
Usama(config)#exit
Usama#
%SYS-5-CONFIG_I: Configured from console by console
|
```

Ctrl+F6 to exit CLI focus   Copy   Paste

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```
Usama(config-if)#exit
Usama(config)#ip route 21.100.100.0 255.255.255.252 41.100.100.1
5
Usama(config)#ip route 21.100.100.0 255.255.255.252 61.100.100.2
10
Usama(config)#ip route 191.100.100.0 255.255.255.248 41.100.100.1
5
Usama(config)#ip route 191.100.100.0 255.255.255.248 61.100.100.2
10
Usama(config)#exit
Usama#
%SYS-5-CONFIG_I: Configured from console by console
|
```

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PC IPS

UsamaPC3 — □ ×

Physical   Config   **Desktop**   Programming   Attributes

IP Configuration   X

Interface   FastEthernet0   ⌄

IP Configuration

○ DHCP   ◉ Static

IPv4 Address   191.100.100.4

Subnet Mask   255.255.255.248

Default Gateway   191.100.100.1

DNS Server   0.0.0.0

IPv6 Configuration

○ Automatic   ◉ Static

IPv6 Address   [   ] / [   ]

Link Local Address   FE80::260:5CFF:FE44:94EC

Default Gateway   [   ]

DNS Server   [   ]

802.1X

☐ Use 802.1X Security

Authentication   MD5

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Usama-PC6

Physical   Config   Desktop   Programming   Attributes

IP Configuration   X

Interface   FastEthernet0   ⌄

IP Configuration

○ DHCP   ● Static

IPv4 Address   211.100.100.4

Subnet Mask   255.255.255.248

Default Gateway   211.100.100.1

DNS Server   0.0.0.0

IPv6 Configuration

○ Automatic   ● Static

IPv6 Address | /

Link Local Address FE80::20B:BEFF:FE23:45C9

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication   MD5

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Message Sent & Received

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete	
●	Successful	UsamaPC3	Usama-PC6	ICMP		0.000	N	0	(edit)		(delete)
●	Successful	Usama-PC2	Usama-PC5	ICMP		0.000	N	1	(edit)		(delete)
●	Successful	Usama-PC1	Usama-PC4	ICMP		0.000	N	2	(edit)		(delete)