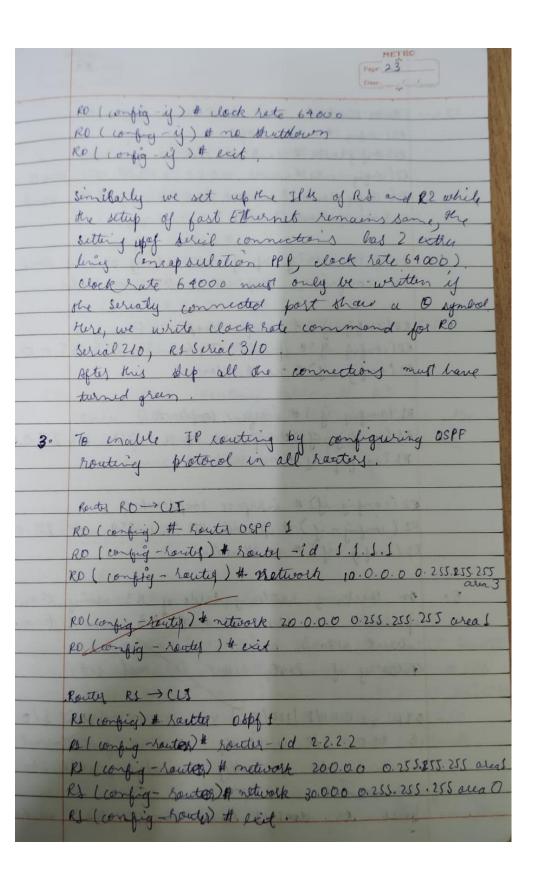
Program 8
Aim: Configure OSPF routing protocol.

Topology, **Procedure and Observation:**

		Page 22 Date: 27:11-24
	Experiment-7	1
30.70	AIM:	
Test of	How to configure OSPF Routing Pro	tocal and
	Connect Areas	
100	Topology:	(2)-
Para d	Se2/0 \$22/0 Se3/0	Se3/0
10.0	.0.1 Pado Routes 20.0.0.1	30.0.0.2 \ 40.0.01
	1	1107
Fag		Red
PCO		PCS
10.00	10	40:0:0:10
1	Procedure:	
1- (onfigure ip address to all interpet default gateways.	loces and
2. # 9	n Router D,	
R	outer (config.) # interface fastethernet 010 outer (config.if) # ip address 100.0.1	255,0,00
R	outer (config-if) # no shutdown	253.01010
Re	outer (config-ig) # exit	
R	O (config) # integran Serial 210	
K	0 (config- y) + encapsulation PPP	255.0.0.0
THE HILLS		



METRO Page: 24 Router R2 - S CLI R2 (confing) # router ospf 1 R2 (corfigholler) # North-id 3.3.3.3 R2 (config - revites) Hnetwork 30.0.0.0 0.255.255.255 R2 (config - Lauty) # notwork 40.0.0.0 0.255.255.255 R2 (config - Laster) & exit 1. Once the setting up of networking area is done we configure loseplacke address to harder RO (confid-ig) # interface loopback O RO(config - if) # ip add 172.16.1.252 255.255.0.0 lol config - ig) # no Shutdown RS (config-ig) # interface loopback O RI (config- of)# ip add 17. 16.1. 253 255. 255.0.0 RI (config. y) A no shutdown R2 (config. if) # interface loopback O R2 (config - if) # ip add 172.16.1.254 255.255.00 R2 (config - if) # no Gratdown on thecking souting table of R3 using there is soute we can see that R3 doesn't know about area 3 Gateway of last resort is 07A 20.0.0.018 [110/128] via 30.0.0.1 Serial \$10 e 40.0.0.0/8 is directly connected, fast Extrernet de C 30.0.0.0/8 is directly connected, Serial 2/0 Since. RB doesn't know about area 3 we hard

		Page 25	
		to create a virtual link between Road R1.	
	6.	G. Creating virtual link between R1, RO In Ranty RO	
2		Ro (config) # Neuty ospf &	
		RD (confiet routes) # alea 1 virtual -link 2.2.2.2	
		RD (config-rente) # exit	
>	11 10	a few person south a policy of the same of the same	
	705,377	In Routes R1	
_	711-17	RI (config) # houter aspf 1	
_		Rt (confrey houter) # area & virtual - link 1.1.1.1	
_		RI (config - herity) # exit.	
_	1-4-51	I de lier de la lange de la republica	
-	7.	Now, check routing table of R3.	
-		once all these steps are completed, the	
0		messarge can now be punged from 1	
-		and-device to other.	
-	-		
+			
0		Observation	
+	-		
+		In R2	
+		Router # show ip Norte	
+			
+	1000	0 TA 2000.018 [110/128] via 30.0.0.1, 00:57:25 Social 210	
+	40.0.0.0/8 is directly connected, Fast Ethernot 0/0		
+		OIA 10.0.0.0/8 [110/129] via 30.0.0.1 00:57:25, serial2/c	
+		C 30.0.0.0/8 is directly connected, Social 2/0	
2		C 112.16.0.0/16 is directly connected, Loopleack.	
1		the part of the state of the st	
1		Similarly the output is known four for Router O and I	
		Routes O and I	

Prig outfield

(prom PcO to PCS)

PcO > Command planfot

Cirping 40.0.0.10 with 32 bytes of data

legist timed oid.

Reply from 40.0.0.10: bytes = 32 time = 21 ms TIL-12.

Reply from 40.0.0.10: bytes = 32 time 2 ms TIL-12.

Reply from 40.0.0.10: bytes = 32 time 2 ms TIL-12.

Reply from 40.0.0.10: bytes = 32 time = 28 ms TIL-12.

Pringing Statistics for 40.0.0.10

Packets of sent = 4, Received = 3, host = 1 (25% loss)

Screen Shots:

