OSPF (Open Shortest Path First)	
show ip monte	
	Date 27/11/24
Enperiment-7	-
a How to configure 0 SPF Routing Brot	newl c
Connect areas	La F
abtic and with water on a last and	
Aim: To configure OSPF nouting prot	ocal s
connect areas	and .
20.0.0.1 ca 2/0 () Se 3/0 Se 2/0	200
10.0.0.1	
Factor Prouter-PT Router-PT 30.0.0.2 Router-	PT 2
lya itou	20110
Fa09 9 Pa0	
to the state of th	Solt
PC-PT PCD (A) CAMPAGE OF CAP PCT	Man
10.0.0.10 40.0.0.10 del gateway.	40.0.0.1
and the land of the y good and about	bus
Topology:	1470 49
1000000	brier
1. Router 1 connected to Router 0 & Router 2	through
interfaces Se 2/0 & Se 3/0	
2. PCO connected to Router O via copper	cross cable
2. PCO connected to Router O via copper through fa 010 interface with it addre	en 10.0.0.10
3. P.C.I connected to Router 2 via cross ca through Fa 0/0 interface, with ip address	ble
through Fa 0/0 interface, with ip address	w 40.0.0.1
Enocedure:	
Open cisco packet tracer & drag the p Router: Place 3 nouters in the middle	ollowing:
Router: Place 3 nouters in the middle	
Pc: Place 2 PCs, each connected to.	Router O

& Router 1 via Fa 0/0 interface Configure all 3 nouters: · Router 0: Router > enable Router # config terminal Router (config) > interface pastethernet 0/0 Router (config-if) > ip address 10.0.0.1 255.0.0.0 Router (config-if) > no shut Router (config) > interface social 2/0 Router (config-if) > if address 20.0.0.1 255.0.0.0 Router (config-if) > encapsulation ppp Router (config-if) > clock note 64000 Router (config-if) > no shut + Router 1: Router (config) > interface serial 2/0 Pouter (config-if) encapsulation ppp Pouter (config-if) > ip address 20.0.0.2 255.0.0.0 Router (config) > interface serial 3/0 Router (config-if) > ip address 30.0.0.1 255.0.0.0 Pouter (config-if) > encapsulation ppp Router (config-if) > dock rate 64000 Norte Cconfig-1/2 > no shut. Router 2: Router (config) > interfatice serial 2/0 Router (config- 4) > 4 address 30.0.0.2 255.0.0.0 Router (config- if) > encapsulation ppp Router (config-if) > clock rate 64000 Router (config-if) > no shut

Route 2: Router (config) # scouter exp[1 Router (config) # nouter - id 3.3.3 Router (config) # network 30.0.0.0 0.255.255.255 area 0 Router (config) # network 40.0.0.0 0.255.255.255 area 2 Router (config) # exit -> configure loopback address to nouters RO (config)# interface loopback O Ro (config) # ip address 172.16.1.252 255.255.0 RO config ) # no shut RI (config) # interface Loopback O RI (config)# ip address 172.16.1.253 255.255.0 RI (config) # no shut R2(config) # interface loopback 0 R2 (config) # ip address 172.16.1.254 255.255.0 R2 (config) # no shut -> Create virtual link b/w RO, RI RO(config) # nouter osp[1 RO (config )# area 1 virtual-link 2.2.2.2 Ro (config) # emit Pouter1 RI (config) # nouter orpf! area O RI (config) # area | virtual - link 1.1.1.1 RI (config) # enit.