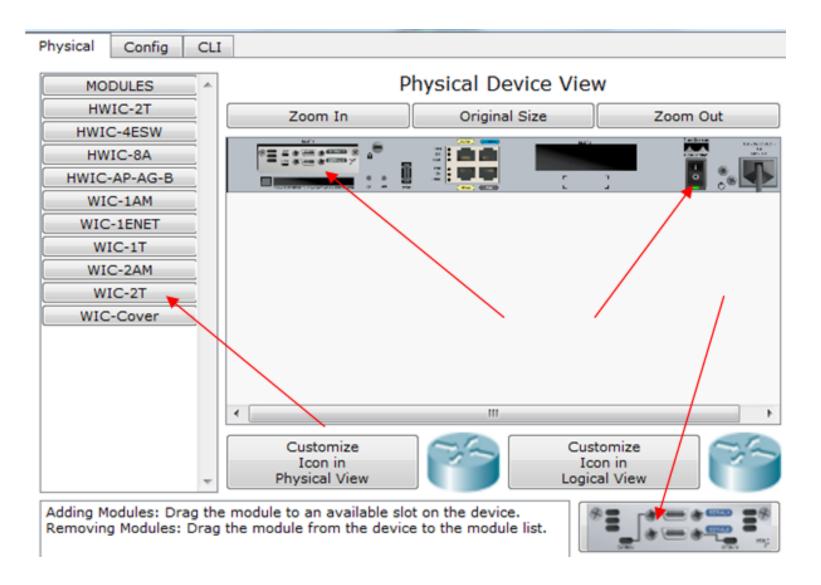
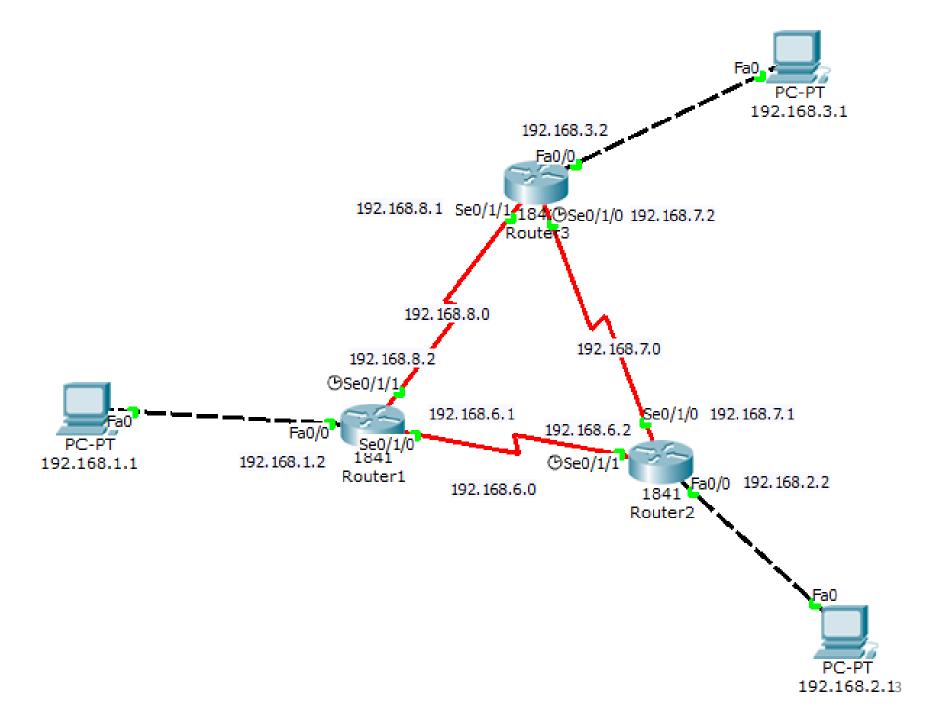
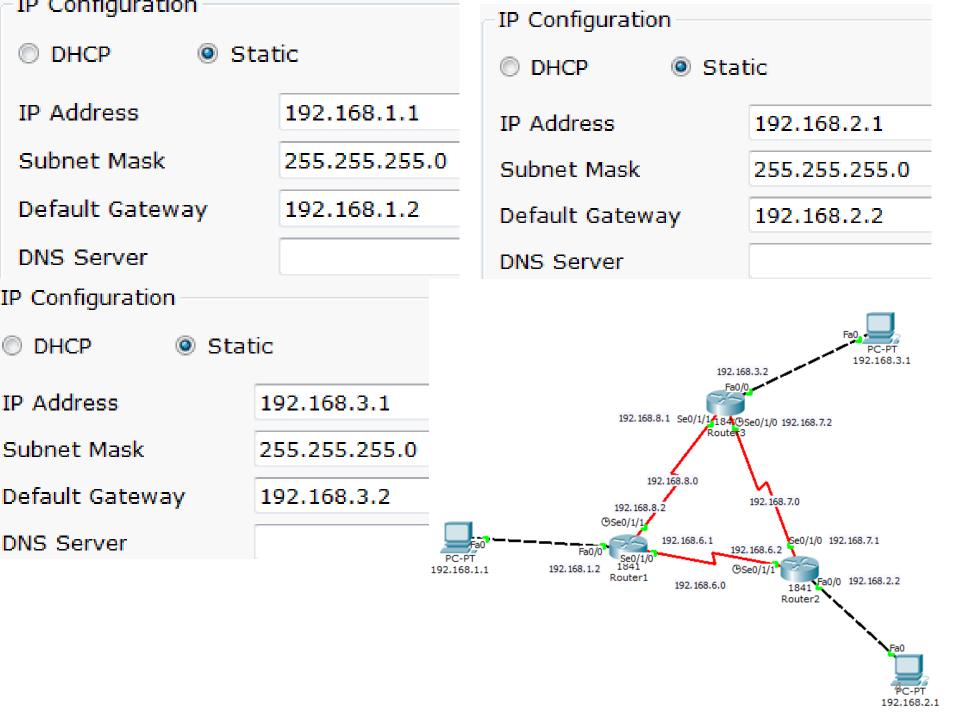
Implementation of OSPF (Open Shortest Path First) Algorithm







Router-1

Router>en

Router#conf t

Router(config)#int fa 0/0

Router(config-if)#ip ad 192.168.1.2 255.255.255.0

Router(config-if)#no shut

Router(config-if)#exit

Router(config)# int se0/1/0

Router(config-if)#ip add 192.168.6.1 255.255.255.0

Router(config-if)#no shut

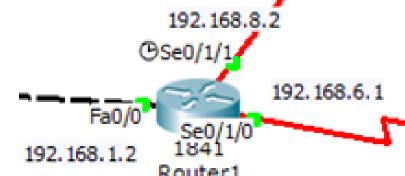
Router(config-if)#exit

Router(config)# int se0/1/1

Router(config-if)#ip add 192.168.8.2 255.255.255.0

Router(config-if)#clock rate 64000

Router(config-if)#no shut



192.168.6.0

Router(config-if)#exit

Router(config)#exit

Router#

Router#copy running-config startup-config

Router#

Router#conf t

Router(config)#router ospf 1

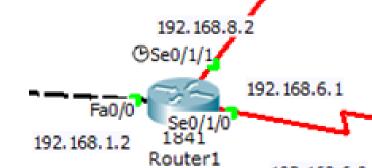
Router(config-router)#network 192.168.1.0 0.0.0.255 area 0

%wildcard mask for network advertising

Router(config-router)#network 192.168.6.0 0.0.0.255 area 0

Router(config-router)#network 192.168.8.0 0.0.0.255 area 0

Router(config-router)#



Router-2

Router>en

Router#conf t

Router(config)#int fa 0/0

Router(config-if)#ip add 192.168.2.2 255.255.255.0

Router(config-if)#no shut

Router(config-if)#exit

Router(config)#int se0/1/0

Router(config-if)#ip add 192.168.7.1 255.255.255.0

Router(config-if)#no shut

Router(config-if)#exit

Router(config)# int se0/1/1

Router(config-if)#ip add 192.168.6.2 255.255.255.0

Router(config-if)#clock rate 64000

Router(config-if)#no shut

Se0/1/0 192.168.7.1 192.168.6.2 OSe0/1/1 Fa0/0 192.168.2.2 Router2 Router(config-if)#
Router(config-if)#exit
Router(config)#exit
Router#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]

192, 168, 6, 2

Router(config)#router ospf 1
Router(config-router)#network 192.168.2.0 0.0.0.255 area 0
Router(config-router)#network 192.168.7.0 0.0.0.255 area 0
Router(config-router)#network 192.168.6.0 0.0.0.255 area 0
Router(config-router)#network 192.168.6.0 0.0.0.255 area 0

Router-3

Router>en

Router#conf t

Router(config)#int fa 0/0

Router(config-if)#ip add 192.168.3.2 255.255.255.0

Router(config-if)#no shut

Router(config-if)#exit

Router(config)# int se0/1/0

Router(config-if)#ip add 192.168.7.2 255.255.255.0

Router(config-if)#clock rate 64000

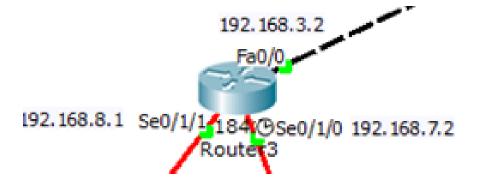
Router(config-if)#no shut

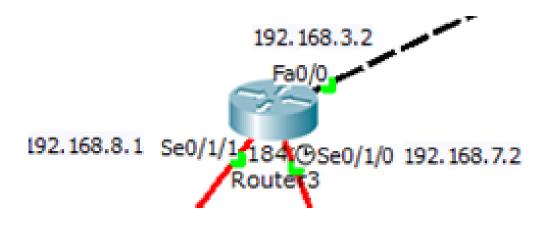
Router(config-if)#exit

Router(config)# int se0/1/1

Router(config-if)#ip add 192.168.8.1 255.255.255.0

Router(config-if)#no shut





Router(config-if)#exit Router(config)#exit

Router#copy running-config startup-config

Router#

Router#conf t

Router(config)#router ospf 1

Router(config-router)#network 192.168.3.0 0.0.0.255 area 0

Router(config-router)#network 192.168.8.0 0.0.0.255 area 0

Router(config-router)#network 192.168.7.0 0.0.0.255 area 0

Router(config-router)#

Verify the network in simulation mode.

