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Experiment-2

To make a complex network and applying EIGRP and OSPF routing protocols

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Branch:	**CSE-IoT**	**Sec/Grp:**	**19AIT_KRG_A**
Semester:	**6th**	**Date:**	**24.02.2022**
Subject:	**NOS LAB**	**Code:**	**CSD-396**

1. Aim/Overview of the practical:

a You will write the difference between the Cat5e and Cat6 cables based on their costing in points.

b You will mention the advantages and disadvantages of both cables in different scenarios.

2. Task to be done:

a You will write the difference between the Cat5e and Cat6 cables based on their costing in points.

b You will mention the advantages and disadvantages of both cables in different scenarios.

3. Apparatus:
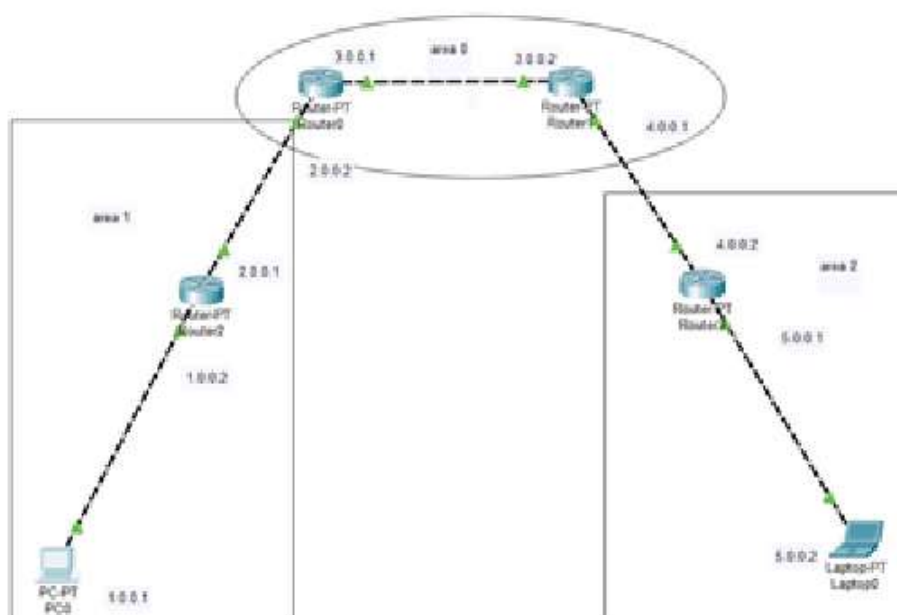
Cisco packet tracer.

4. Algorithm/Flowchart:

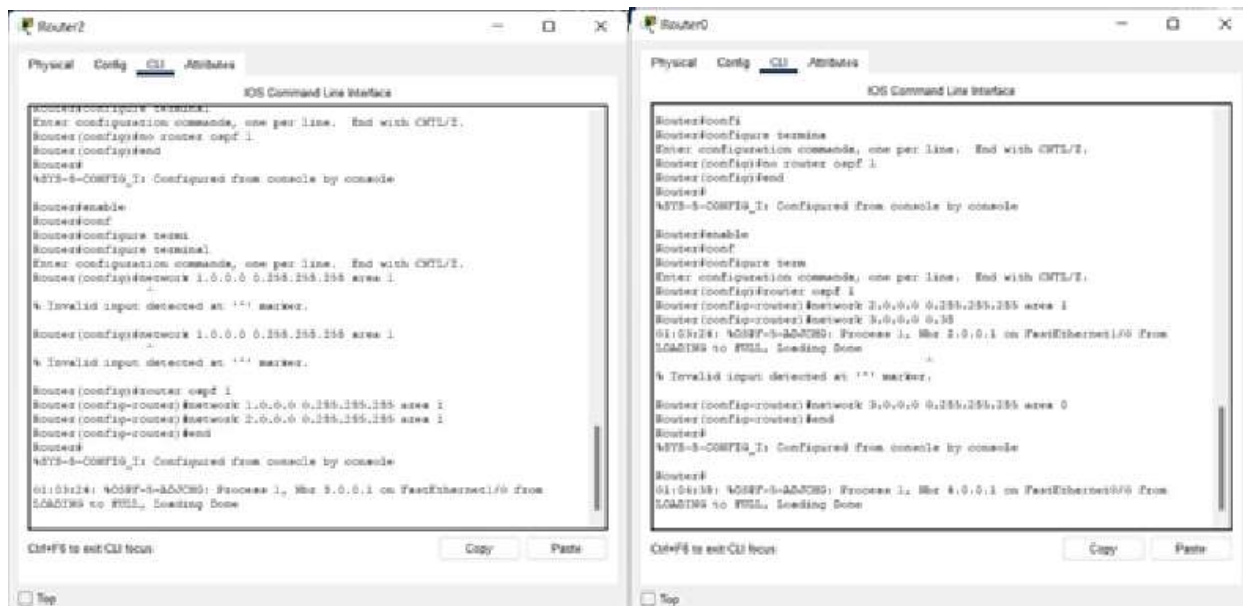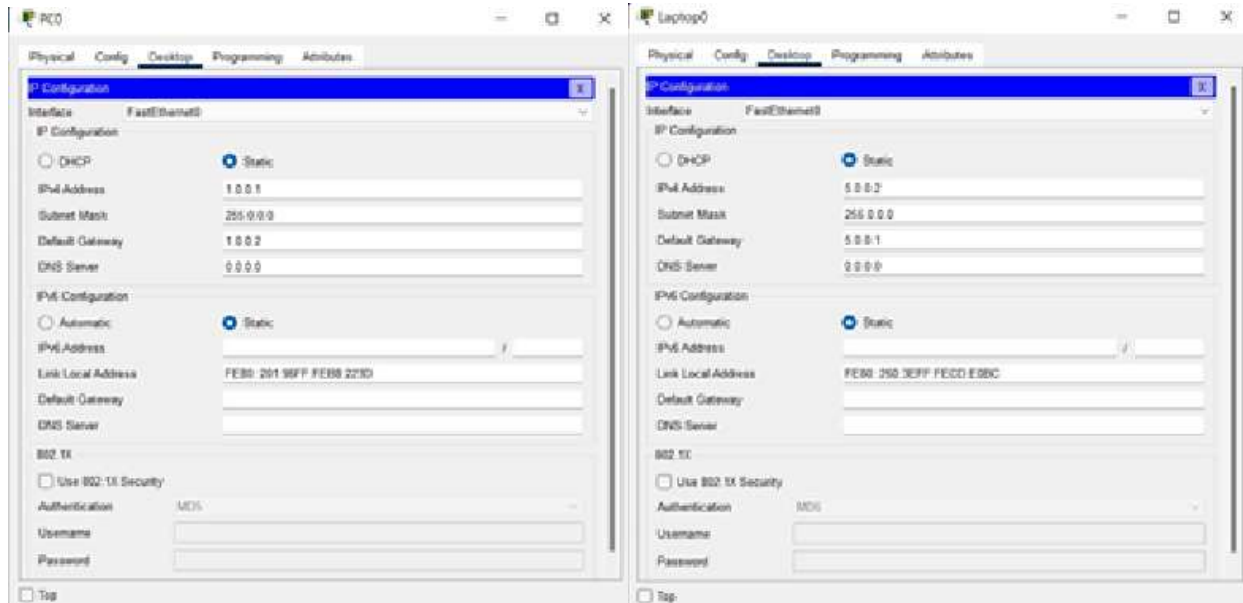**5. Theme/Interests definition**(For creative domains)**:**

a OSPF:- The OSPF (Open Shortest Path First) protocol is one of a family of IP Routing protocols, and is an Interior Gateway Protocol (IGP) for the Internet, used to distribute IP routing information throughout a single Autonomous System (AS) in an IP network. The OSPF protocol is a link-state routing protocol.
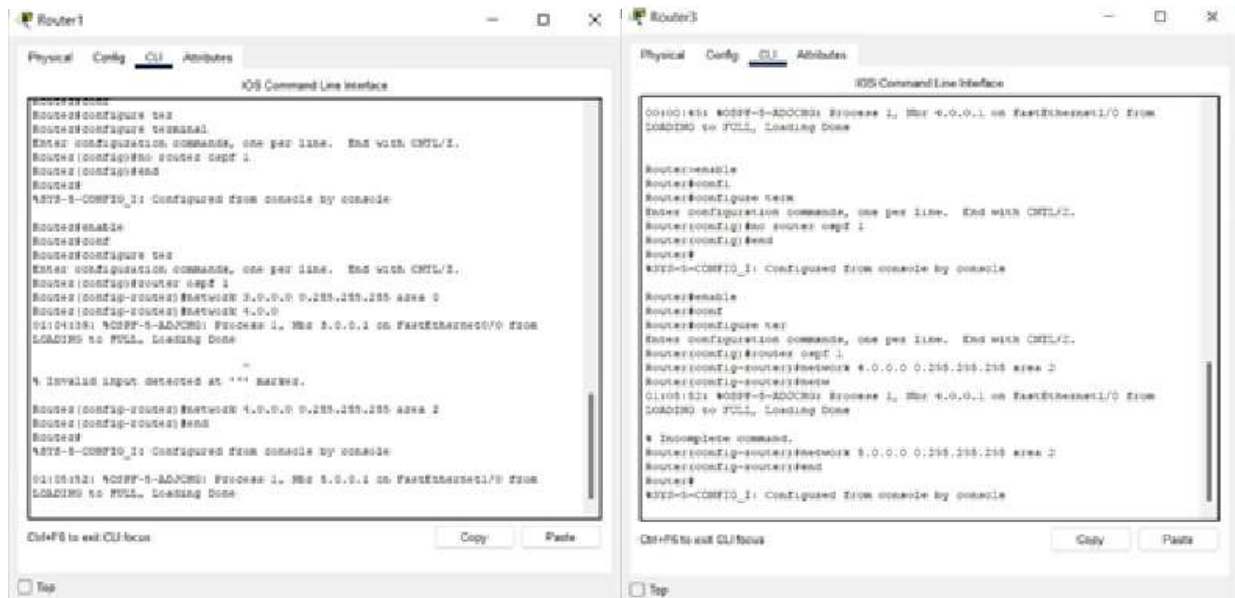
b EIGRP:- One of the routing protocols is EIGRP. Enhanced Interior Gateway Routing Protocol (EIGRP) is a dynamic routing protocol that is used to find the best path between any two layer 3 devices to deliver the packet. EIGRP works on network layer Protocol of OSI model and uses protocol number 88.

6. Steps for experiment/practical:

a **OSPF protocol**

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b EIGRP steps

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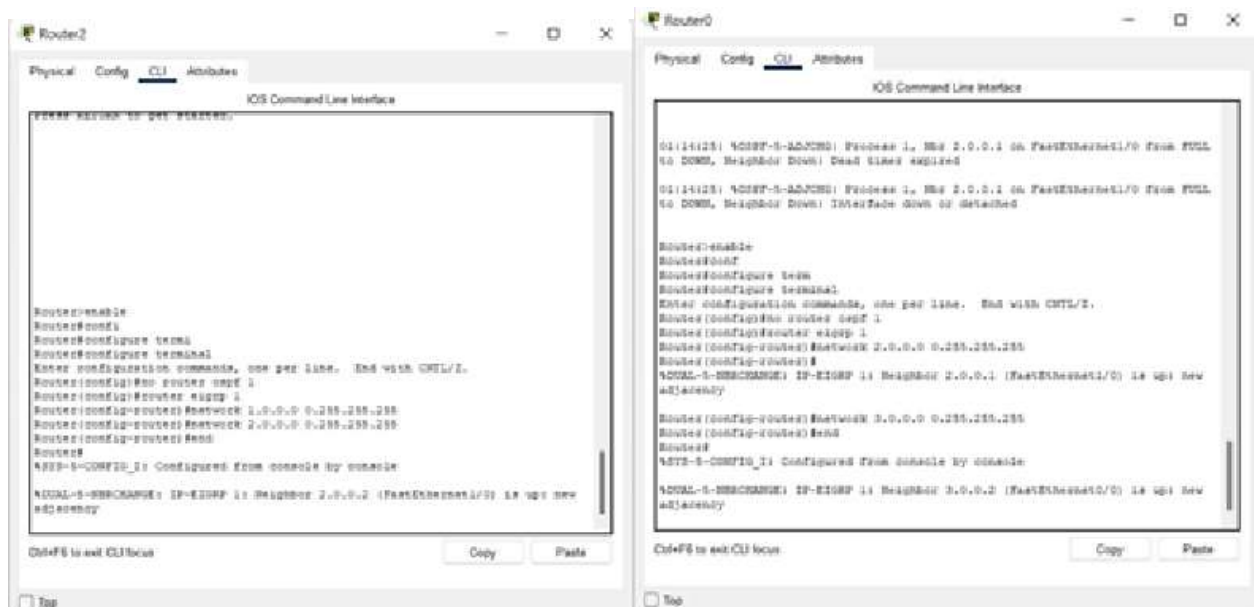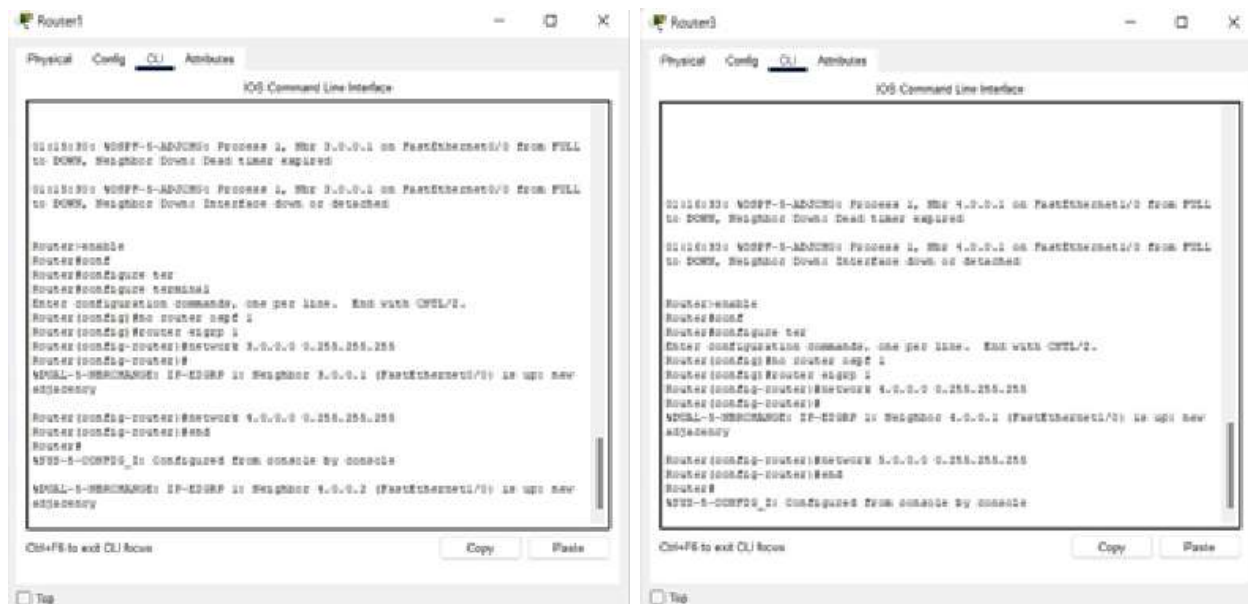
7. Observations/Discussions:

After making all the connections and performing ospf and eigrp commands we were able to make a successful connection throughout the network.

8. Percentage error: None
9. Calculations/ Chemical Reactions / Theorems /Formulas used etc : None

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10. Result/Output/Writing Summary :

a (OSPF results)

b EIFRP results

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11. Graphs:

Learning outcomes (What I have learnt):

1. Learnt about Cisco packet Tracer.

2. Learnt about OSPF protocol.

3. Learnt about EIGRP.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			