

# **Assignment Report**

This report contains work from Assignment 8 of course CSN 361.

Name- Kaustubh Trivedi Enrollment Number - 17114044 Class - CSE B.Tech. 3rd Year Submission Files - Repository Link **QUESTION 1:** Use CISCO packet tracer to create a network topology as shown in Fig. 1, and configure the network with Open Shortest Path First (OSPF) protocol.

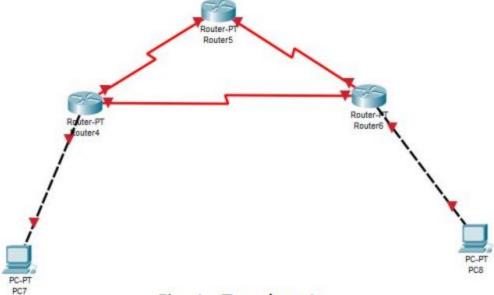
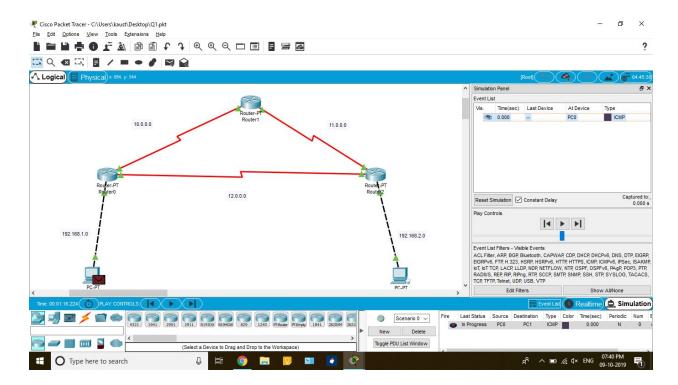


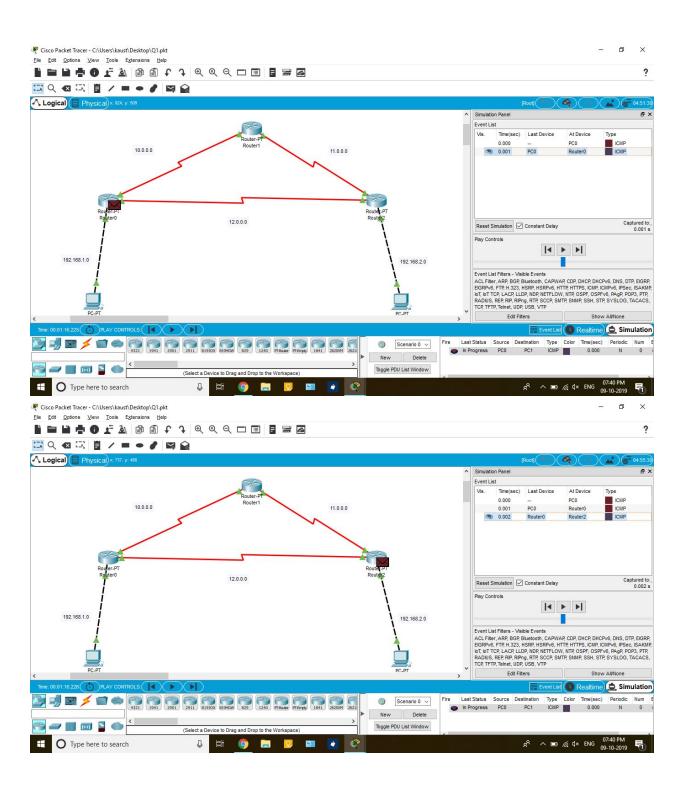
Fig. 1: Topology1

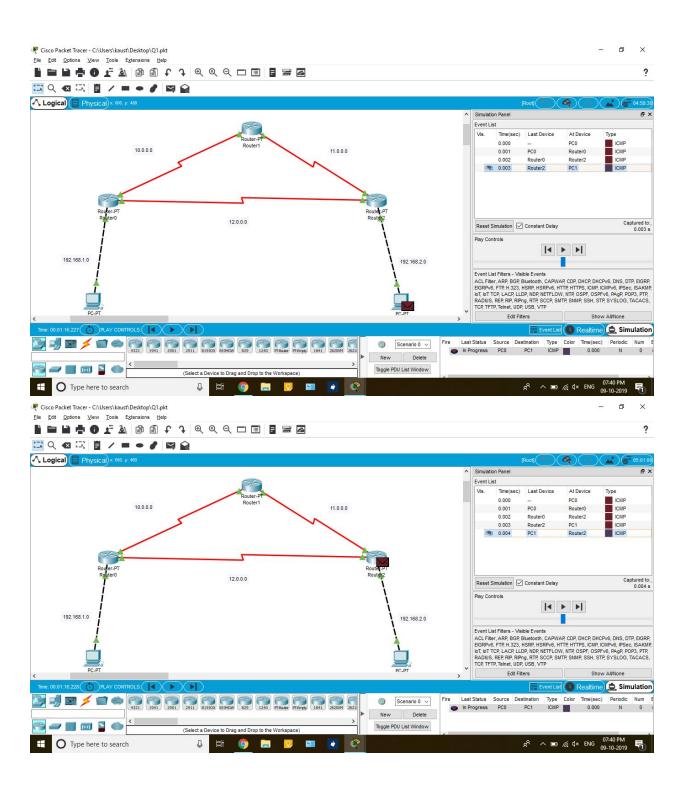
# **SOLUTION:**

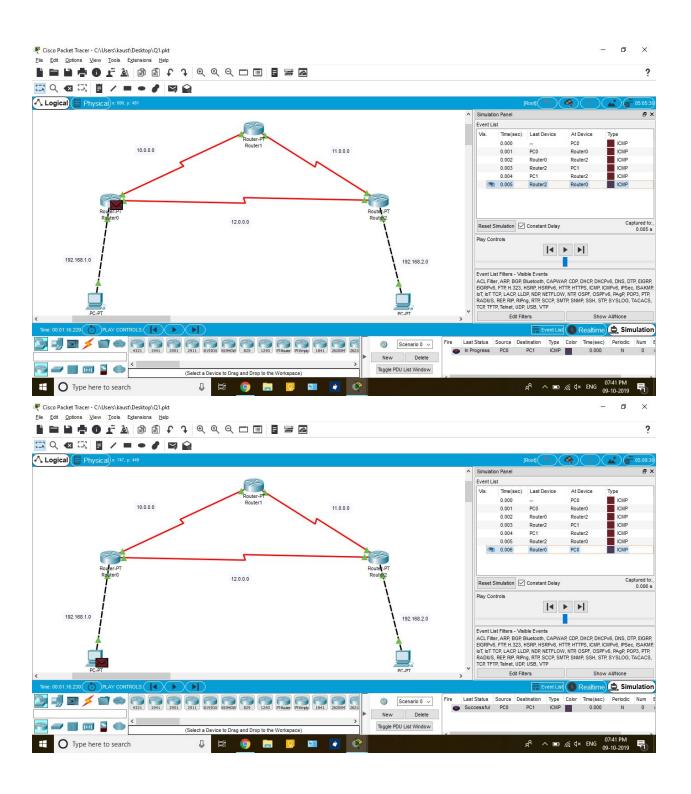
Open shortest path first (OSPF) is a link-state routing protocol which is used to find the best path between the source and the destination router using its own SPF algorithm.

#### **SCREENSHOT:**









**QUESTION 2:** Use CISCO packet tracer to demonstrate Address Resolution Protocol (ARP) in a ring topology as shown in Fig. 2

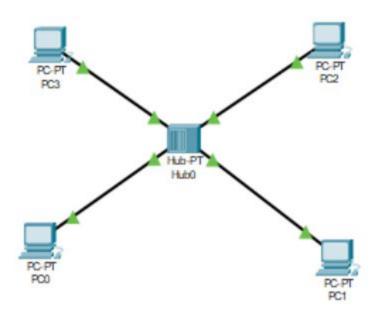


Fig. 2: Ring Topology

## **SOLUTION:**

Most of the computer programs/applications use logical address (IP address) to send/receive messages, however the actual communication happens over the physical address (MAC address) i.e from layer 2 of OSI model. So our mission is to get the destination MAC address which helps in communicating with other devices. This is where ARP comes into the picture, its functionality is to translate IP address to physical address.

## **SCREENSHOTS:**

