

# PAF-Karachi Institute of Economics and Technology College of Computing and Information Sciences - North Campus Internet & Intranet Architecture

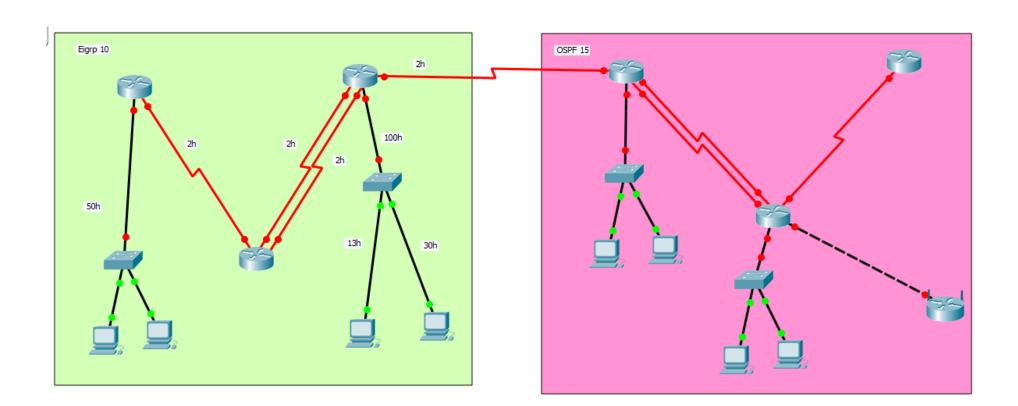
# Assignment – 1

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SID: 11067 CID: 109138

**Instructions (READ AND FOLLOW INSTRUCTIONS CAREFULLY):** 

- In case of CHEATING, COPIED material or any unfair means would result in ZERO marks.
- Mention your name and ID above and write solution in this file and then submit in word or PDF format.
- Late submission will result in mark deduction



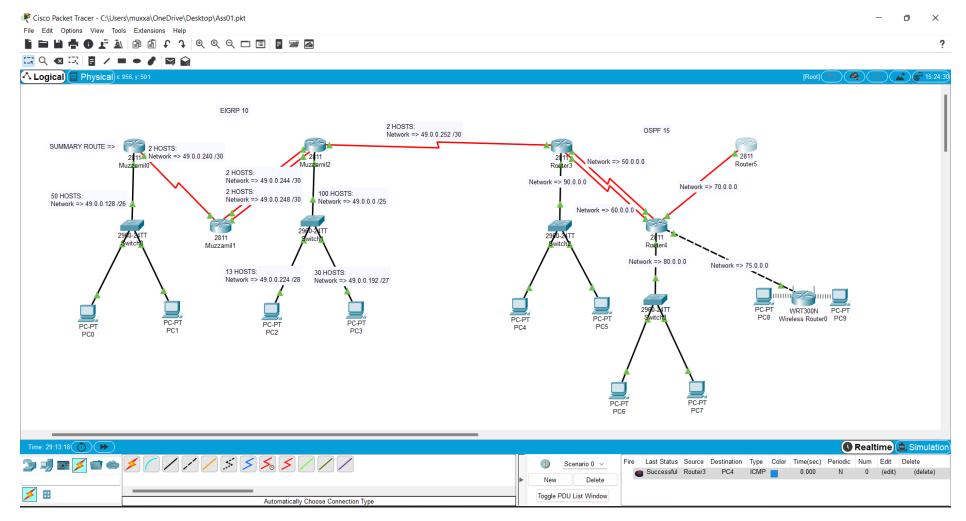
# **Instructions (for Topology Configuration)**

- ➤ Change all router hostname with your name
- ➤ Use major network which is assigned to you only
- > Configure Eigrp on left side.
- ➤ Configure the Eigrp part using VLSM.
- ➤ Configure DHCP on Wireless Router
- ➤ While configuring Eigrp configure summarize route.
- Configure floating routes where necessary.
- > All routers should communicate with each other.
- ➤ All end devices should communicate within their respective areas
- > Submit screenshot of topology with network labels
- > Submit screenshots of routing table of all routers
- > Submit screenshot of DHCP

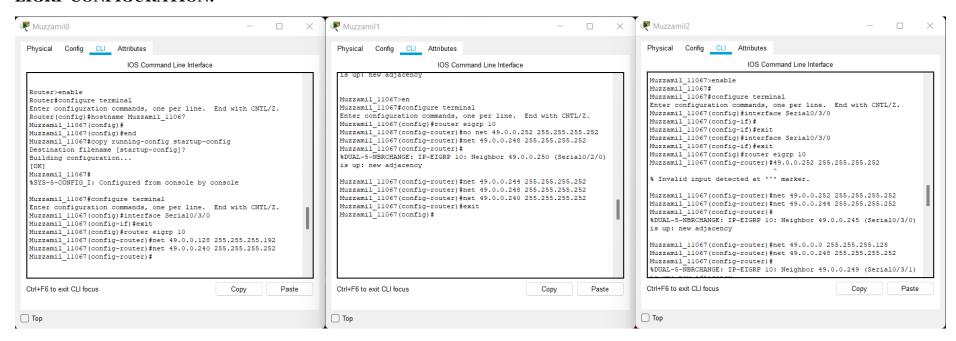
If anyone failed to follow any instruction I will deduct 1 marks for each instruction.

# [Solution]

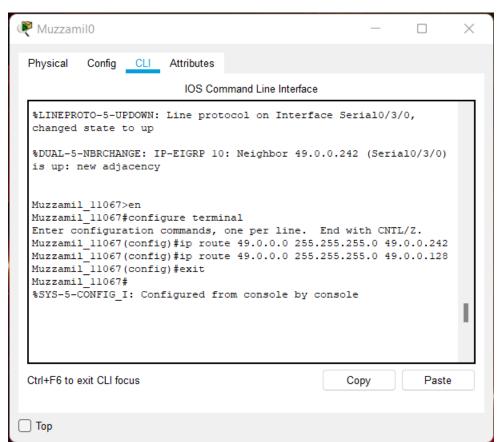
#### **TOPOLOGY WITH NETWORK LABELS:**



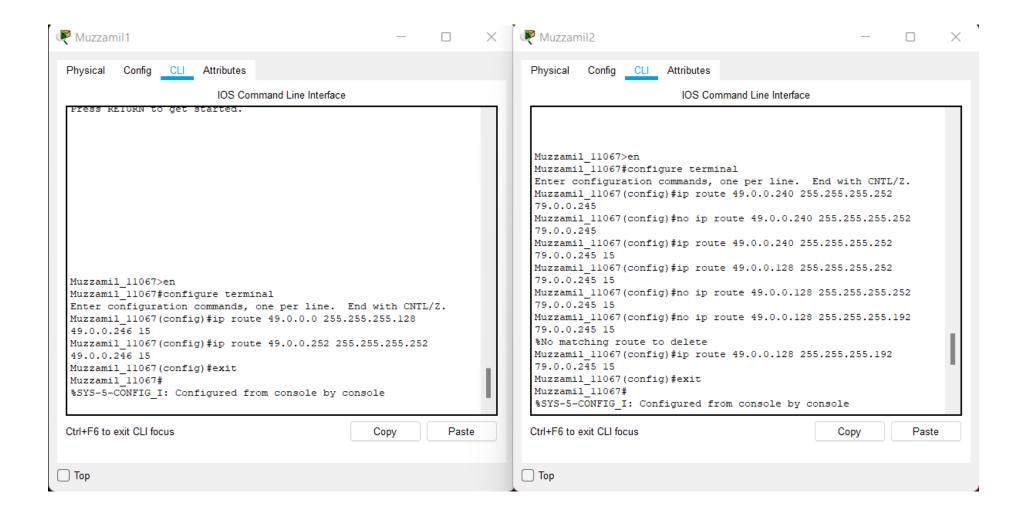
#### **EIGRP CONFIGURATION:**



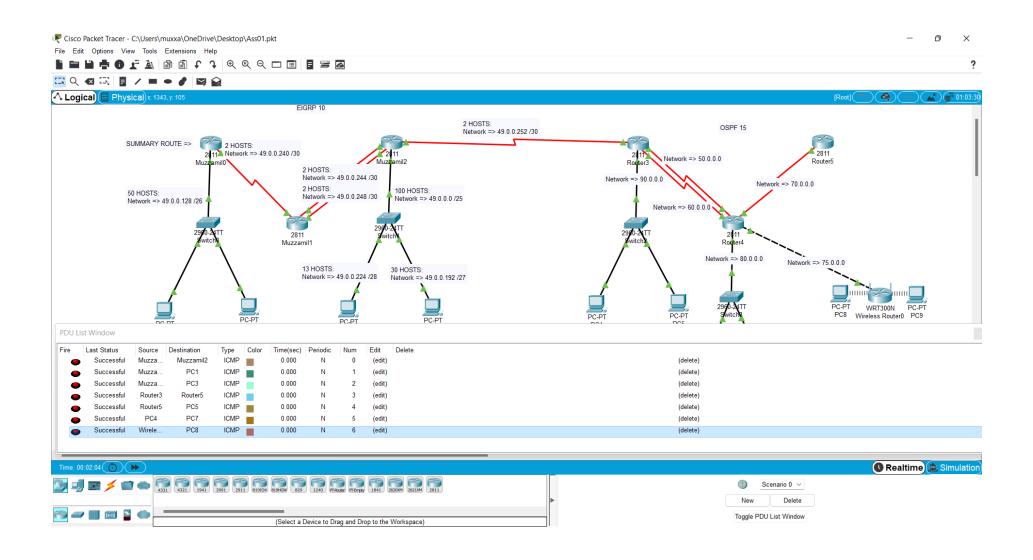
# **SUMMARY ROUTE:**



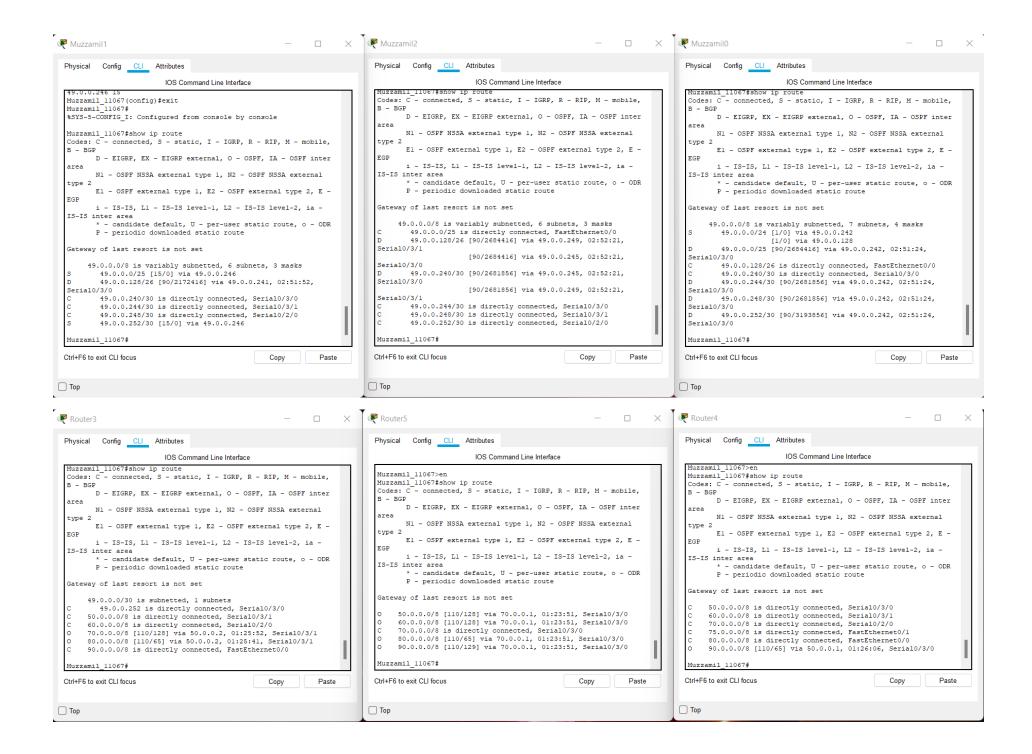
#### **FLOATING ROUTES:**



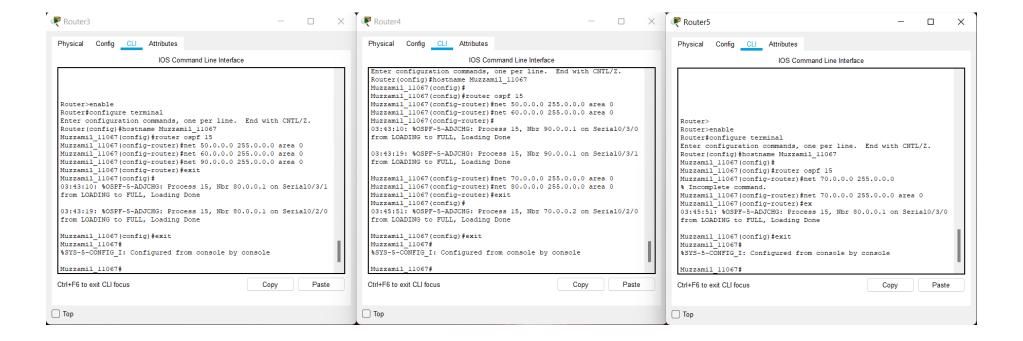
#### TESTING COMMUNICATION WITH ROUTERS AND END DEVICES:



#### **ROUTING TABLES:**



# **OSPF CONFIGURATION:**



# DHCP CONFIGURATION AND CHECK ITS CONNECTIVITY WITH END DEVICES:

