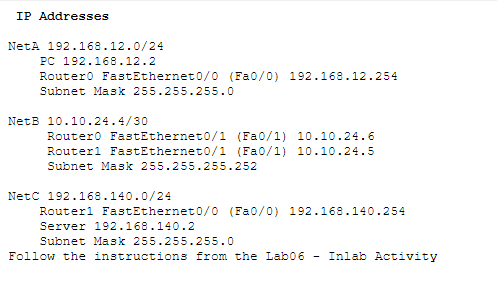
**Lab 06 Submission Template**

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# Task 0: (no marks but zero for the submission it’s missing)

Insert task0\_ip.jpg



# Task 3: Questions (1 Mark each)

1. .Open the Desktop command prompt on the PC and ping the server again. Use the capture forward button to move the packet to Router0. Click on the PDU and then the inbound PDU details tab.
   1. What is the value of the TTL field in the IP Header? 126
   2. What are the values of the Type and Code fields in the ICMP header? 0x08 and 0x00
2. Look at the Outbound PDU details tab and see if any of the values recorded in the above step have changed? What field and value (if any) changed? Destination address and source address changed as well as the ID. (ID 0x000e -> 0x0007)
3. Close the PDU information window. Use the capture forward button to move the PDU to the Server and back to Router0. . Click on the PDU and then the inbound PDU details tab.
   1. What is the value of the TTL field in the IP Header? 127
   2. What are the values of the Type and Code fields in the ICMP header? 0x00 and 0x00
4. What’s different between the Inbound and outbound PDUs? TTL is now 126 and destination / source address have also changed
5. What’s different in the ICMP header between this PDU and the one you observed in Step 4 different values

# Task 4: Questions (1 mark each)

5. Examine this PDU (outbound PDU details) and record the following:

* 1. Source IP: 192.168.12.2
  2. Destination IP 192.168.140.2
  3. ICMP Type: and Code: 0x08, 0x00
  4. What comes after (below) the ICMP header? Describe what it is. Hint: examine the inbound PDU at Router0 . a scale that consists of 32 bits
  5. What was the final device for the PDU? (a new PDU will be created at the final device) Router0
  6. In the PDU that was generated, what are the source and destination IPs? Source: 192.168.12.2 Destination: 192.168.140.2

1. How far does the PDU travel? From PC to Router0
2. What are the ICMP type and code values of the returned PDU? 0x08, 0x00
3. What meaning does the ICMP packet have? Huh?
4. Use the Capture/Forward button to move the PDU to the server
   1. What type of PDU is moving towards the server (look in the Event List)? ICMP
5. At the Server a new PDU will be created.
   1. What type is it? Never reached server
   2. What are the ICMP type and code values of the returned PDU? Never reached server
   3. What meaning does the ICMP packet have? Never reached server

**Don’t forget to upload your completed Packet Tracer activity file. This need to be done as a separate file**