Report for Lab 13-1: Ethernet Protocol

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Part I	
1	Frame size: 73 bytes on wire (584 bits)
2	Payload size (data and padding): Total length - Header size = 59 bytes - 20 bytes = 39 bytes
3	Can you say that there is padding in the payload? No.
4	Number of bytes of padding in a 60-byte frame: 6 bytes

Part II		
1	a. Destination link-layer address: 88:36:6c:00:cd:a4	b. Source link-layer address: a4:5e:60:f1:f0:49
	c. Upper layer protocol: UDP(17)	
2	Are answers to question 1 verified by the information in the detail pane lane? Yes (part 2.2)	
3	Is destination link-layer address unicast or broadcast? Yes. It is “unicast”.	
4	Does the source link-layer address define your network? No. Explain : Source link layer address is the link-layer address of the sender, it is not related to network layer. So, source link-layer address just itself can’t define my network.	
5	Is there a relationship between the designation link-layer address and the destination IP address?Yes. Explain : Through Arp, the destination link-layer address can be binded with the destination IP address. In other words, IP address can be found by link-layer address.	

part 2. 2, 2.3

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▼ Destination: EfmNetwo_00:cd:a4 (88:36:6c:00:cd:a4)
    Address: EfmNetwo_00:cd:a4 (88:36:6c:00:cd:a4)
    .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
    .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
▼ Source: Apple_f1:f0:49 (a4:5e:60:f1:f0:49)
    Address: Apple_f1:f0:49 (a4:5e:60:f1:f0:49)
    .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
    .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
▼ Internet Protocol Version 4, Src: 192.168.0.2, Dst: 168.126.63.1
  0100 .... = Version: 4
  .... 0101 = Header Length: 20 bytes (5)
▶ Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
  Total Length: 59
  Identification: 0x1904 (6404)
▼ Flags: 0x00
    0... .... = Reserved bit: Not set
    .0.. .... = Don't fragment: Not set
    ..0. .... = More fragments: Not set
  Fragment offset: 0
  Time to live: 64
  Protocol: UDP (17)
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