**Computer Networking**

**Wireshark lab: Getting started**

**Question 1: List three protocols that appeared in the connection to the given URL.**

**Answer: Three of the protocols that appeared in the connection are as follows:**

1. **ICMPv6,**
2. **TCP, and**
3. **ARP.**

**Question 2:** How long did it take from when the HTTP GET message was sent until the HTTP OK reply was received?

Answer: It took (15.4446180-15.4007990) = **0.043819 seconds.**

**Question 3: What is the internet address of** the gaia.cs.umass.edu and what is the internet address of your computer?

Answer: The internet address of gaia.cs.umass.edu is 128.119.245.12  
 The internet address of my computer is: 192.168.0.7

Question 4: Print the two HTTP messages (GET and OK) referred to in question 2 above.

Answer:

**HTTP GET message:**

No. Time Source Destination Protocol Length Info 216 15.40079900 0 192.168.0.7 128.119.245. 12 HTTP 712 GET /wiresha rk-labs/INTRO-wires hark-file1.html HTT P/1.1

Frame 216: 712 byte s on wire (5696 bit s), 712 bytes captu red (5696 bits) on interface 0 Ethernet II, Src: H onHaiPr\_7c:1c:6d (9 0:00:4e:7c:1c:6d), Dst: ArrisGro\_a2:41 :f7 (ac:b3:13:a2:41 :f7) Internet Protocol V ersion 4, Src: 192. 168.0.7 (192.168.0. 7), Dst: 128.119.24 5.12 (128.119.245.1 2) Transmission Contro l Protocol, Src Por t: 61988 (61988), D st Port: 80 (80), S eq: 1, Ack: 1, Len: 658 Hypertext Transfer Protocol

**HTTP OK message:**

No. Time Source Destination Protocol Length Info 218 15.44461800 0 128.119.245.12 192.168.0.7 HTTP 434 HTTP/1.1 200 OK (text/html)

Frame 218: 434 byte s on wire (3472 bit s), 434 bytes captu red (3472 bits) on interface 0 Ethernet II, Src: A rrisGro\_a2:41:f7 (a c:b3:13:a2:41:f7), Dst: HonHaiPr\_7c:1c :6d (90:00:4e:7c:1c :6d) Internet Protocol V ersion 4, Src: 128. 119.245.12 (128.119 .245.12), Dst: 192. 168.0.7 (192.168.0. 7) Transmission Contro l Protocol, Src Por t: 80 (80), Dst Por t: 61988 (61988), S eq: 1, Ack: 659, Le n: 380 Hypertext Transfer Protocol Line-based text dat a: text/html