Lab 3 Demo Questions

DO NOT make any marks on this sheet
Please return this sheet after demo

Part 1. Explain your codes (25%)

Please open your both of codes via any editor

1. What are done in the processor object in Learning Bridge? (5%)
2. What are done in the **activate** and **deactivate** method in Proxy ARP? (5%)
3. How do you maintain the table in Learning Bridge and Proxy ARP
    a. Please explain data structure (5%)
    b. When will an entry be inserted in to the table (5%)
    c. Where the entry data come from (5%)

Part 2. Modify your code. (15%)

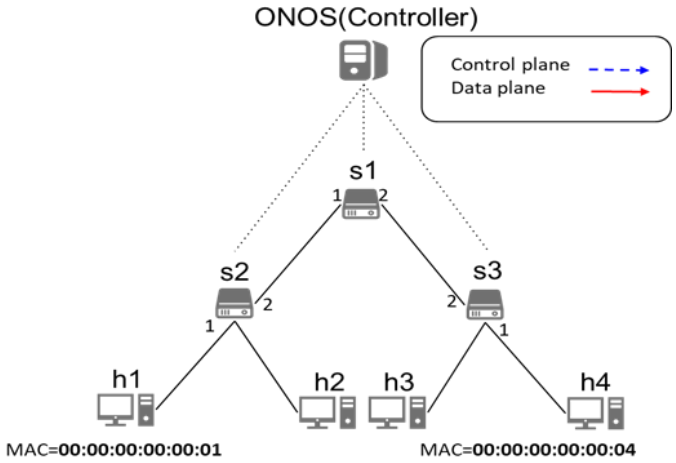
In the restrictions of this project, you were required to use either FlowObjectiveService (under *org.onosproject.net.flowobjective* package) or FlowRuleService (under org.onosproject.net.flow package) to install flow rules.

Please use the service **other than the one used in your submission** to install flow rules.

If you have used both of them to install flow rules in your submission, you can tell TA and get the point directly.

Part 3. Answer questions (60%)

1. Please explain the difference between **FlowObjectiveService** and **FlowRuleService** when using them to install flow rules. (10%)
2. Suppose that h1 pings h4 in the following topology:



According to **Learning Bridge Function** we studied in the lab 3 slide, answer the following questions:

a. How does the function work when switches receive ARP request packet? (10%)
b. How does the function work when switches receive ARP reply packet? (10%)
c. How can the function be modified so that switches don't need to packet-in when they receive an ARP reply packet? (10%)

3. According to the **Proxy ARP** we studied in the Lab 3 slides, answer the following questions:
   a. When h1 arping h2, when does h2 need to send an ARP reply packet? (10%)
   b. When h1 arping h2, when does h2 not need to send an ARP reply packet, and how to send an ARP reply packet to h1? (10%)