EXP-9: To construct simple LAN and understand the concept and operation of Address Resolution Protocol (ARP)

TOPOLOGY:

Command Prompt

```
Reply from 10.0.0.1: bytes=32 time=0ms TTL=128

Ping statistics for 10.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>arp -a
  Internet Address      Physical Address      Type
  10.0.0.1              000b.be63.5583        dynamic

PC>ping 10.0.0.2

Pinging 10.0.0.2 with 32 bytes of data:

Reply from 10.0.0.2: bytes=32 time=0ms TTL=128
Reply from 10.0.0.2: bytes=32 time=0ms TTL=128
Reply from 10.0.0.2: bytes=32 time=0ms TTL=128
Reply from 10.0.0.2: bytes=32 time=0ms TTL=128

Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>arp -a
  Internet Address      Physical Address      Type
  10.0.0.1              000b.be63.5583        dynamic
  10.0.0.2              0002.1771.5770        dynamic
```


Command Prompt

```
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>arp -a
  Internet Address      Physical Address      Type
  10.0.0.1              000b.be63.5583        dynamic

PC>ping 10.0.0.2

Pinging 10.0.0.2 with 32 bytes of data:

Reply from 10.0.0.2: bytes=32 time=0ms TTL=128
Reply from 10.0.0.2: bytes=32 time=0ms TTL=128
Reply from 10.0.0.2: bytes=32 time=0ms TTL=128
Reply from 10.0.0.2: bytes=32 time=0ms TTL=128

Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>arp -a
  Internet Address      Physical Address      Type
  10.0.0.1              000b.be63.5583        dynamic
  10.0.0.2              0002.1771.5770        dynamic

PC>arp -d
PC>arp -a
No ARP Entries Found
PC>
```