**Assignment # 3: Address Translation and Mapping**

* **Program to convert IP address**
  + - Dotted decimal string to 4-byte unsigned Integer
    - 4-byte unsigned Integer to Dotted decimal string
* **Program for address translation and translation cache** 
  + Machine Name to IP
  + IP to Machine Name
  + IP to MAC
  + MAC to IP
* **Program to generate all possible IP Address within a specific network**
  + Input : IP Address and Subnet mask
  + Output: All possible IP Addresses including
    - Gateway (normal)
    - Unicast (All Possible)
    - Broadcast
* Survey : Provide list of functions that perform , DNS , ARP , PING , Address Conversion, Byte Ordering
* **Note:** 
  + **Write functions for each task given above,**
  + **Perform each task in all C, C# and Java**