**ASSIGNMENT NO: 1**

**Title:** DHCP, DNS and Web Server configuration

**Aim:**

Configure network using Dynamic Host Configuration Protocol (DHCP), DNS and Web server Use Ping utility to test connectivity

**Objectives:**

1. To learn the DHCP installation and understand the practical use of DHCP, DNS and Web server.
2. To learn the mechanism to access the remote machine by using ping utility to test connectivity.

**Theory: (Handwritten & Scanned)**

* Student's should write Two-page theory report (Handwritten & Scanned)
  + 1. Dynamic Host Configuration Protocol (DHCP)
    2. The Need for DHCP
    3. DHCP Message Format
    4. DHCP Operation
    5. DNS and Email server

**Design Screenshots:**

* Student's should Draw/Paste Design screen shots

**Steps followed for the Configuration (for Packet Tracer Assignments) / Algorithm (for programming assignment):**

* Students should write Steps followed for implementation of assignment.

**Output Screenshots:**

* Student's should Draw/Paste final output screen shots

**Students Observation:**

* Student's should write their Observations about lab assignment

**FAQ (Handwritten & Scanned)**

* Student's should write Answer for following questions

1. What are different ways to check IP address of a machine?
2. What are the different ways to assign IP addresses?
3. What do you mean by private and public IP addresses? Specify the ranges.
4. What is the difference between DHCP and DNS.