# Experiment Number 1

# Experiment Name: Creating a Computer Network.

**Purpose:**

* Sending message between the connected computers.

**Equipment:** The list are follows,

* Pc
* Switch
* Router
* Server
* Access point
* Wire

**Procedure:** First we take 4 pc, 2 switch and 1 routers. Then we connect two pc with a switch and connect two switch with a router by wire. I configured each pc by giving unique ip address and gave them subnet mask, default gateway. Default gateway will be same of those pc which under the same switch. Then I configured the routers by giving ip address, subnet mask. To check if the connectivity is right or there is any problem, I had to ping from every pc to all other pc. To do that first we have to go the command prompt. Then we have to type ping and then the pc’s ip address that we want to ping. Now I created a domain that is access by all the pc. For that I changed the server configuration to DHCP and setup the DNS and HTTP.

To access that domain from a pc we need to add the server ip address to each pc.To configure email section first we have to add user setup in server. Then we need to add that user setup to each pc and also give a email address. By this address we can send email from one pc to another pc. By these ways can complete our configuration. To do that first we have to go the comment prompt. Then we have to type ping and then the pc’s ip address that we want to connect. By doing these all things we can send a message from that pc to other pc.

# Experiment 2

# Experiment Name: Routing (Static) CLI Cisco Packet Trace.

**Purpose:**

* Sending message between the connected computers.

**Equipment:** Here we use different devices. The list are follows,

* Pc
* Switch
* Router

**Procedure:** I took 4 pc, 2 switch and 1 routers. Then we connect 2 pc with a switch and connect the switch with a router by wire. Then we configure each pc by giving unique ip address, subnet mask, default gateway. The value of default gateway will be same of those pc which under the same switch. By the way we configure all the pcs. Now we set Ip for router. To do this we need to go CLI prompt and the two ip address to each router. Then we configure route(static). To do these again we need to go CLI of that router add the ip address of the connected router. Lastly we have to ping one pc to all other pc.