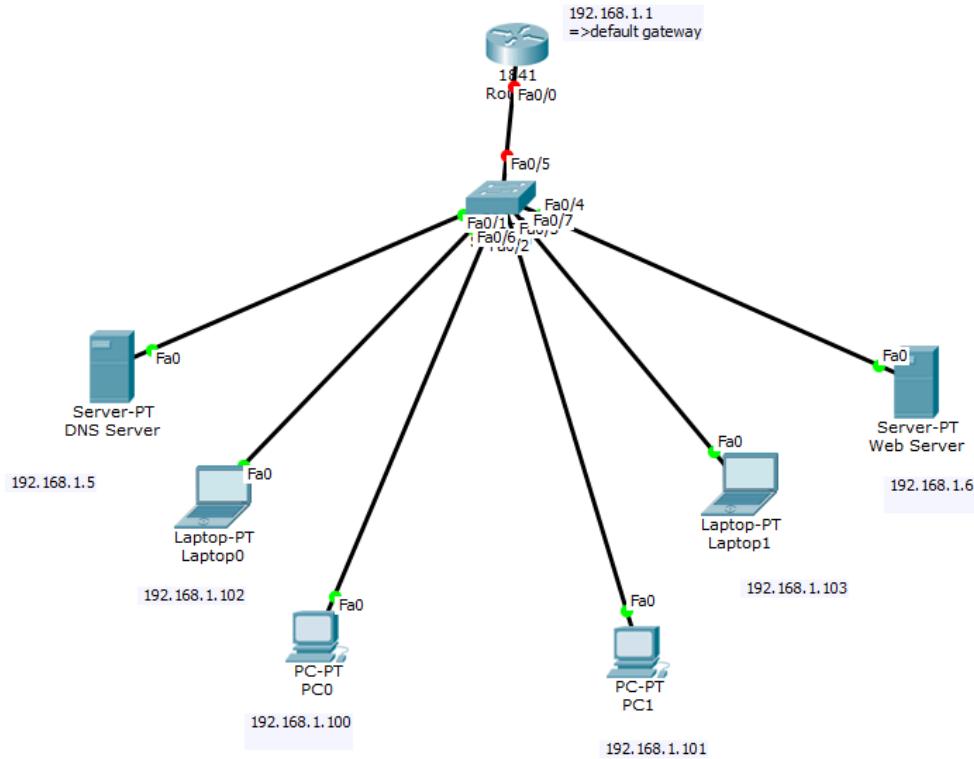


## **Program – 3:**

**Aim:** Configure Web Server, DNS within a LAN.

### **Topology:**



### **Procedure:**

#### **1. PC Configurations**

##### **PC0**

- IP Address: **192.168.1.100**
- Subnet Mask: **255.255.255.0**
- Default Gateway: **192.168.1.1**
- DNS: **192.168.1.5**

##### **PC1**

- IP Address: **192.168.1.101**
- Subnet Mask: **255.255.255.0**
- Default Gateway: **192.168.1.1**
- DNS: **192.168.1.5**

#### **2. Servers Required**

- **DNS Server**
- **Web Server**

#### **3. Configure Web Server**

1. Open Server > Services > HTTP
2. Turn **HTTP** and **HTTPS** ON

3. Go to **Desktop > Edit HTML**
  - Edit the default HTML page to display a custom message
4. Assign IP to Web Server:
  - **IP:** 192.168.1.6
  - **Subnet Mask:** 255.255.255.0
  - **Default Gateway:** 192.168.1.1
  - **DNS:** 192.168.1.5

#### **4. Configure DNS Server**

1. Go to **Services > DNS**
2. Add a new DNS entry:
  - **Name:** www
  - **Domain:** letslearn.com
  - **Address:** 192.168.1.6 (IP of web server)
3. Ensure DNS Service is **ON**
4. DNS Server IP configuration:
  - **IP:** 192.168.1.5
  - **Subnet Mask:** 255.255.255.0
  - **Default Gateway:** 192.168.1.1
  - **DNS:** 192.168.1.5

#### **5. Check Connectivity**

On PC → **Command Prompt**

- ping 192.168.1.5 → tests DNS server connection
- ping 192.168.1.6 → tests web server connection

Open **Desktop > Web Browser** and enter:

<http://www.letslearn.com>

The webpage should load successfully.

#### **6. Extra Tasks**

- Modify the HTML page and verify changes appear in browser
- Add more PCs and configure their IP, gateway, and DNS similarly

#### **Output:**

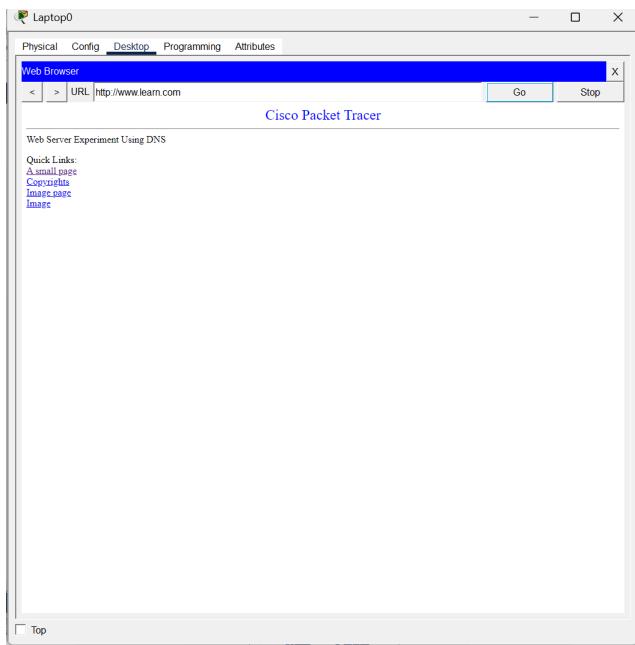


Fig 3.1 Browser search output

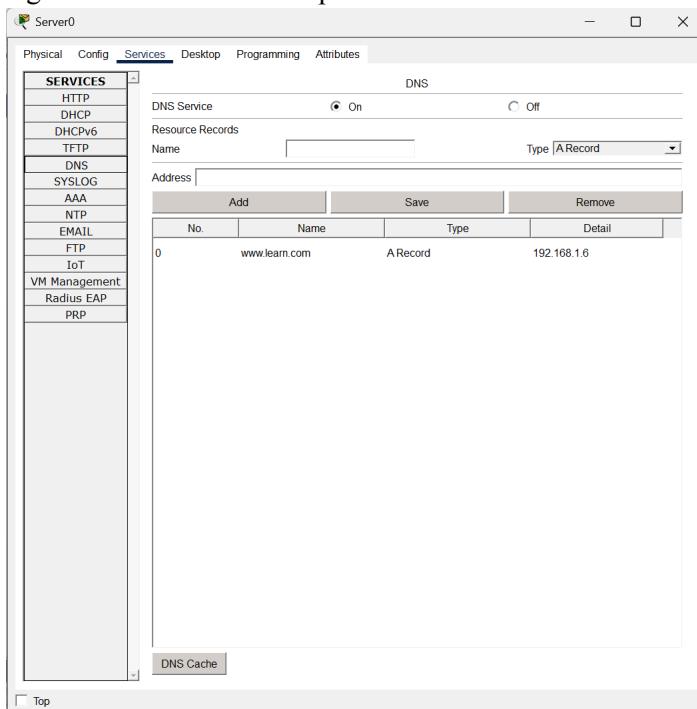


Fig 3.2 DNS Server Records