

LAB PROGRAM -6

Q) Configure Web Server, DNS within LAN.

Procedure :

COMPASS
Date: 20/02/23

Experiment - 6

Aim: Configure web server, DNS within LAN.

Topology:

```
graph TD
    Switch[Switch] ---|Fa 0/0| PC[PC-0  
10.0.0.1]
    Switch ---|Fa 1/0| Server[Server-0  
10.0.0.2]
```

Procedure:

Step 1: Create a network by placing a generic PC, generic Server and switch in the logical workspace. Connect the PC and the Server to a Switch using Copper straight-Through to form a LAN.

Step 2: Set the PC's and Servers IP Address
PC IP Address: PC → config → fastEthernet → IP Address → 10.0.0.1
Server IP Address: Server → config → fastEthernet → IP Address → 10.0.0.2

Step 3: Go to PC → desktop → web browser → URL → 10.0.0.2 a default display is shown.

Step 4: To modify default display to individual users cv:
Server → Service → HTTP → index.htm → edit [write HTML, CSS code to create a CV] → Save. To view the changes made in index.html to be seen on browser go to PC → desktop → web browser → URL → 10.0.0.2 → Created CV is displayed

M T W T F S S
☐ ☐ ☐ ☒ ☐ ☐ ☐

Step 5: To give the IP Address a Domain Name
 server → services → DNS → Switch on
 Name → give a Domain name
 IP Address → 10.0.0.2
 Finally Add it.

Step 6: To view web browser through Above set domain
 PC → desktop → web browser → domain name.

Result:



URL: http://anagha

Go

Stop

Image to be
Placed
here

Anagha Ms

Bangalore, India

USN: 18MA1C5022

Email: anagham.s.cs21@bmsce.ac.in

Education

Schooling:

Sri Kumarans Childrens Home

College:

currently pursuing Bachelor of Technology in Computer Science & Engineering at BMS College of Engineering.

Work Experience

- Currently working as a web developer at Project Tarang, an NGO focusing on menstrual health management.

Skills

• Python

• Java

• JavaScript, HTML, CSS

• C

Projects

College Activity Page

- Was part of a 4-membered team to design a website
- Provides students Ability to Register for events.
- Designed using Javascript, HTML.

References

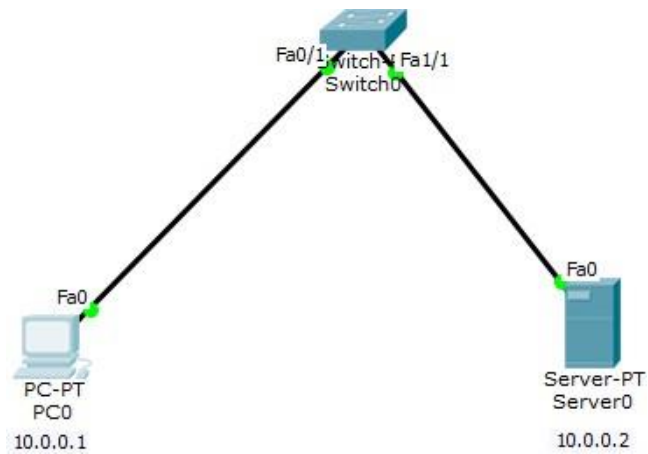
References Available upon request.

Observation:

DNS stands for Domain Name System. It is a directory service that provides a mapping b/w the name of a host on the network and its numerical Address.

DNS is a client/server network communication protocol. The client sends a request (in the form of domain name) which is converted to IP Address known as forward DNS lookup. The computer is then able to retrieve and interact with the webpage.

Topology :



Server 0 :

Server0

Physical Config Services Desktop Custom Interface

SERVICES

- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP

HTTP

HTTP ☒ On ☐ Off

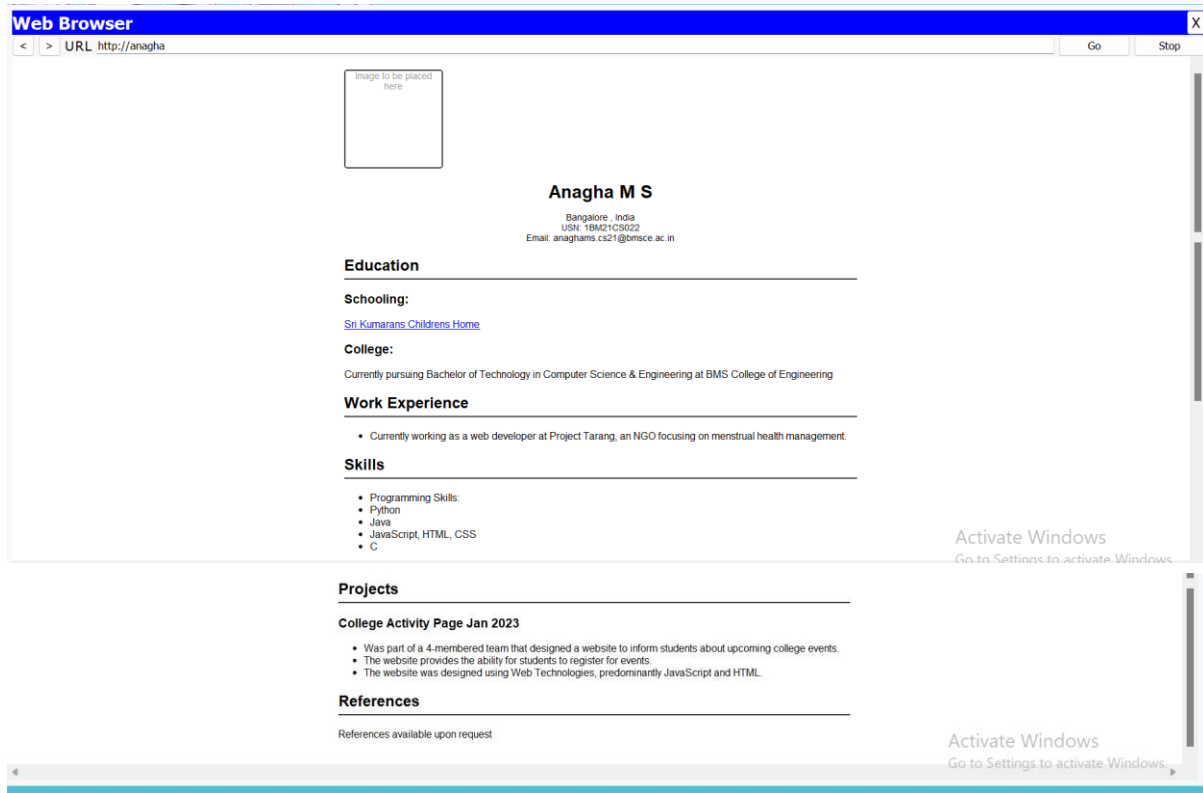
HTTPS ☒ On ☐ Off

File Manager

	File Name	Edit	Delete
1	copyrights.html	(edit)	(delete)
2	cscoptlogo177x...		(delete)
3	helloworld.html	(edit)	(delete)
4	image.html	(edit)	(delete)
5	index.html	(edit)	(delete)
6	profile.jpg		(delete)

New File Import

Website:



Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Your CV</title>
<style>
body {
font-family: Arial, sans-serif;
margin: 0;
padding: 0;
}

.container {
display: flex;
flex-direction: column-reverse; /* Reversed column order */
align-items: flex-end; /* Right alignment */
max-width: 800px;
margin: 0 auto;
padding: 20px;
}
```

```
.left-column {  
flex-basis: 30%;  
text-align: center;  
}
```

```
.right-column {  
flex-basis: 70%;  
}
```

```
.profile-picture {  
width: 150px;  
height: 150px;  
border: 2px solid #333; /* Border style for the image box */  
border-radius: 5px;  
position: relative; /* Positioning for the placeholder */  
overflow: hidden;  
margin-bottom: 20px;  
}
```

```
.profile-picture img {  
width: 100%;  
height: 100%;  
object-fit: cover;  
}
```

```
.placeholder-text {  
position: absolute;  
top: 0;  
right: 0;  
bottom: 0;  
left: 0;  
display: flex;  
justify-content: center;  
align-items: center;  
font-size: 14px;  
color: #999;  
background-color: rgba(255, 255, 255, 0.7);  
}
```

```
.name {  
font-size: 28px;  
margin-bottom: 10px;  
}
```

```
.contact-info {  
font-size: 14px;  
}
```

```
h2 {  
margin-top: 20px;
```

```
border-bottom: 2px solid #333;
padding-bottom: 5px;
}
```

```
/* Additional styling */
.work-experience,
.skills,
.projects,
.references {
margin-bottom: 20px;
}
```

```
.work-experience ul,
.skills ul,
.projects ul {
list-style-type: disc;
padding-left: 20px;
}
```

```
.projects h3 {
margin-top: 10px;
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="container">
```

```
<div class="left-column">
```

```
<div class="profile-picture">
```

```
<!-- Placeholder for the image -->
```

```
<div class="placeholder-text">Image to be placed here</div>
```

```
</div>
```

```
<h1 class="name">Anagha M S</h1>
```

```
<p class="contact-info">
```

```
Bangalore , India<br>
```

```
USN: 1BM21CS022<br>
```

```
Email: anaghams.cs21@bmsce.ac.in
```

```
</p>
```

```
</div>
```

```
<div class="right-column">
```

```
<h2>Education</h2>
```

```
<h3>Schooling:</h3>
```

```
<!-- Link to school website -->
```

```
<p><a href="https://kumarans.org/" target="_blank">Sri Kumarans Childrens  
Home</a></p>
```

```
<h3>College:</h3>
```

```
<p>Currently pursuing Bachelor of Technology in Computer Science & Engineering at BMS  
College of Engineering</p>
```

```
<h2 class="work-experience">Work Experience</h2>
```

```
<ul>
```

Currently working as a web developer at Project Tarang, an NGO focusing on menstrual health management.

<h2 class="skills">Skills</h2>

Programming Skills:
Python
Java
JavaScript, HTML, CSS
C

<h2 class="projects">Projects</h2>

<h3>College Activity Page Jan 2023</h3>

Was part of a 4-membered team that designed a website to inform students about upcoming college events.
The website provides the ability for students to register for events.
The website was designed using Web Technologies, predominantly JavaScript and HTML.

<h2 class="references">References</h2>

<p>References available upon request</p>
</div>
</div>
</body>
</html>