

Placement Empowerment Program

Cloud Computing and DevOps Centre

Host a Static Website Locally

**“Set Up a Local Server Apache and Host a Simple HTML page
with your name”**

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Introduction

Hosting a static website locally involves setting up a local web server to serve HTML content. This approach is useful for testing and previewing web applications before deploying them to a production environment.

Overview

In this POC, we will:

- Install and configure a local server (Apache or Nginx) on a Windows machine.
- Host a simple HTML page with your name as the content.
- Test the setup by accessing the hosted webpage in a browser.

Objective

The primary objective is to demonstrate the ability to host a static website locally using an open-source server Apache on a Windows environment.

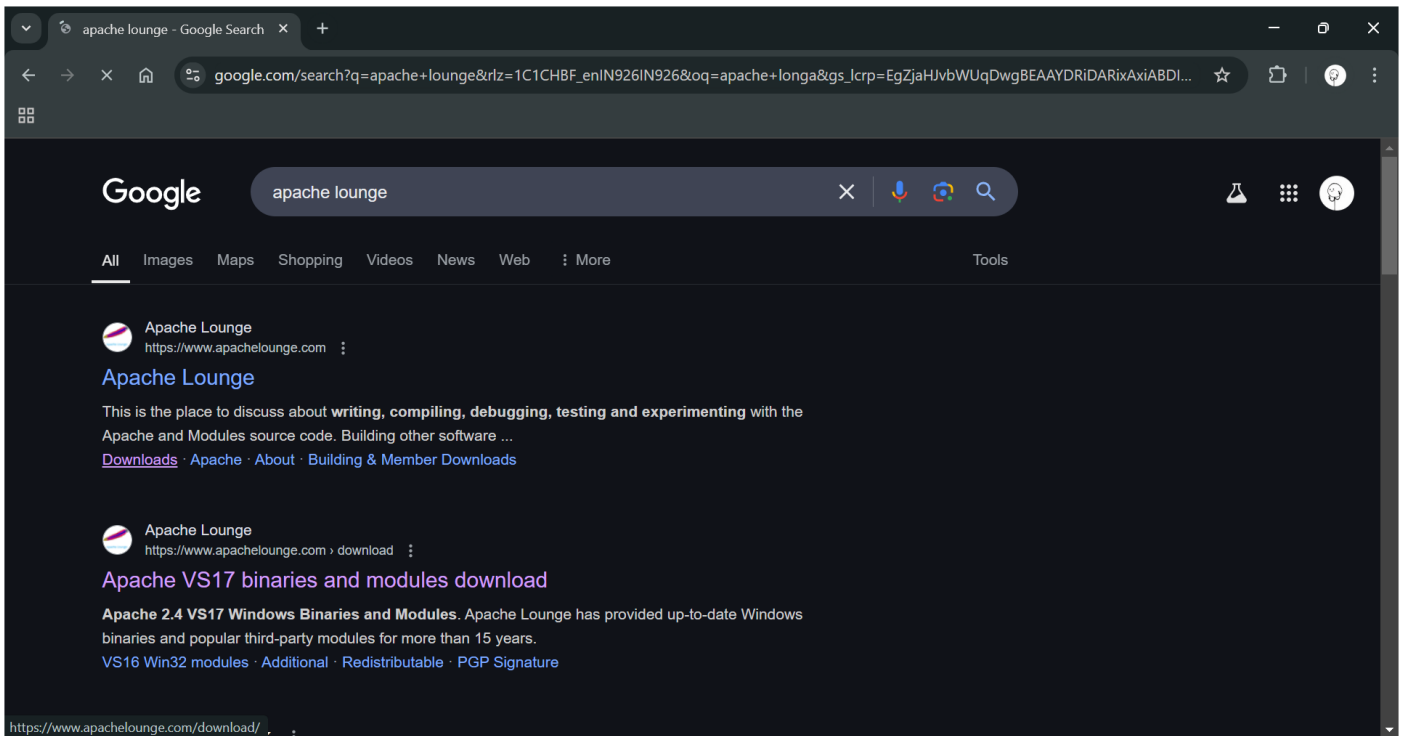
Importance

- Enables testing and debugging web applications locally.
- Provides insights into web server configuration.
- Lays the foundation for learning advanced web hosting and deployment techniques.

Step-by-Step Overview

Step 1:

Search for "Apache Lounge" on Google and click the first link to access the official website.



Step 2 :

Click on the "Downloads" option located on the left-hand side of the Apache Lounge website.

Step 3 :

Click on the link "**Apache 2.4.62-240904 Win64**" (Windows version), download the file, and extract all its contents.

Apache Lounge
Webmasters [Apache server software](#)

Apache 2.4 VS17 Windows Binaries and Modules

Apache Lounge has provided up-to-date Windows binaries and popular third-party modules for more than 15 years. We have hundreds of thousands of satisfied users: small and big companies as well as home users. Always build with up to date dependencies and latest compilers, and tested thorough. The binaries are referenced by the ASF, Microsoft, PHP etc. and more and more software is packaged with our binaries and modules.

The binaries, are build with the sources from ASF at <http://httpd.apache.org>, contains the latest patches and latest dependencies like zlib, openssl etc. which makes the downloads here mostly more actual then downloads from other places. The binaries **do not run** on XP and 2003. Runs on: 7 SP1, Vista SP2, 8/8.1, 10, 11 Server 2008 SP2 / R2 SP1, Server 2012 / R2, Server 2016/2019/2022.

Build with the latest Windows Visual Studio C++ 2022 aka VS17. Has Improvements, fixes and optimizations over VS16 in areas like Performance, MemoryManagement, New standard conformance features, Code generation and Stability. For example code quality tuning and improvements done across different code generation areas for "speed". And makes more use of latest processors and supported Windows editions (win7 and up) internal features.

VS17 is backward compatible, That means, a VS16/15/14 module can be used inside the VS17 binary.

Be sure you installed latest 14.42.34433.0 Visual C++ Redistributable Visual Studio 2015-2022 : [vc_redist_x64](#) or [vc_redist_x86](#) see [Redistributable](#)

Apache 2.4 binaries VS17

[Info & Changelog](#)

Apache 2.4.62-240904 Win64

File Name	Date	Size
httpd-2.4.62-240904-win64-VS17.zip	04 Sep '24	11.432k

PGP Signature (Public [PGP key](#)), SHA1-SHA512 [Checksums](#)

Apache 2.4.62-240904 Win32

File Name	Date	Size
httpd-2.4.62-240904-win32-vs17.zip	04 Sep '24	10.285k

PGP Signature (Public [PGP key](#)), SHA1-SHA512 [Checksums](#)

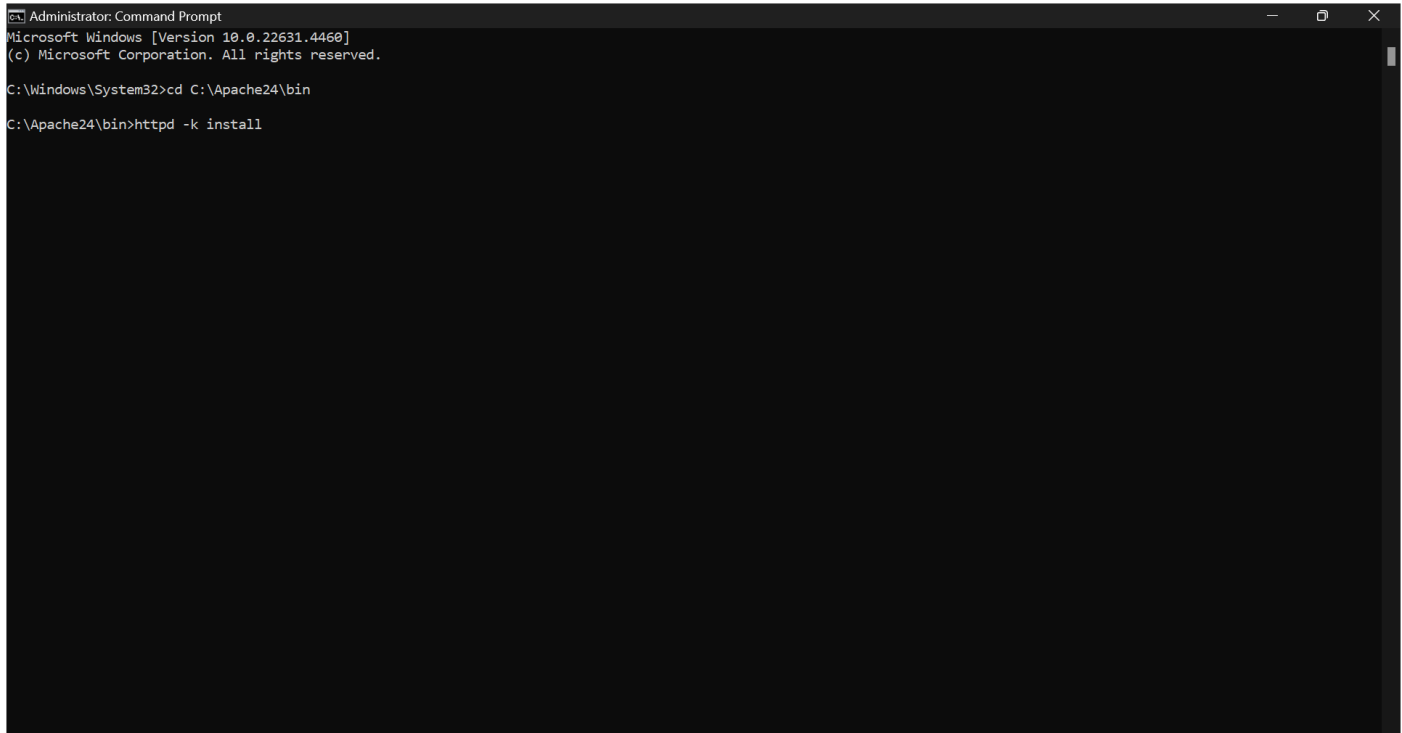
To be sure that a download is intact and has not been tampered with, use PGP, see [PGP Signature](#)

Step 4 :

Open Command Prompt as Administrator (Windows + R, type cmd, right-click and select 'Run as Administrator') and use the command `cd C:\path\to\apache\bin` to set the path to the Apache bin folder.

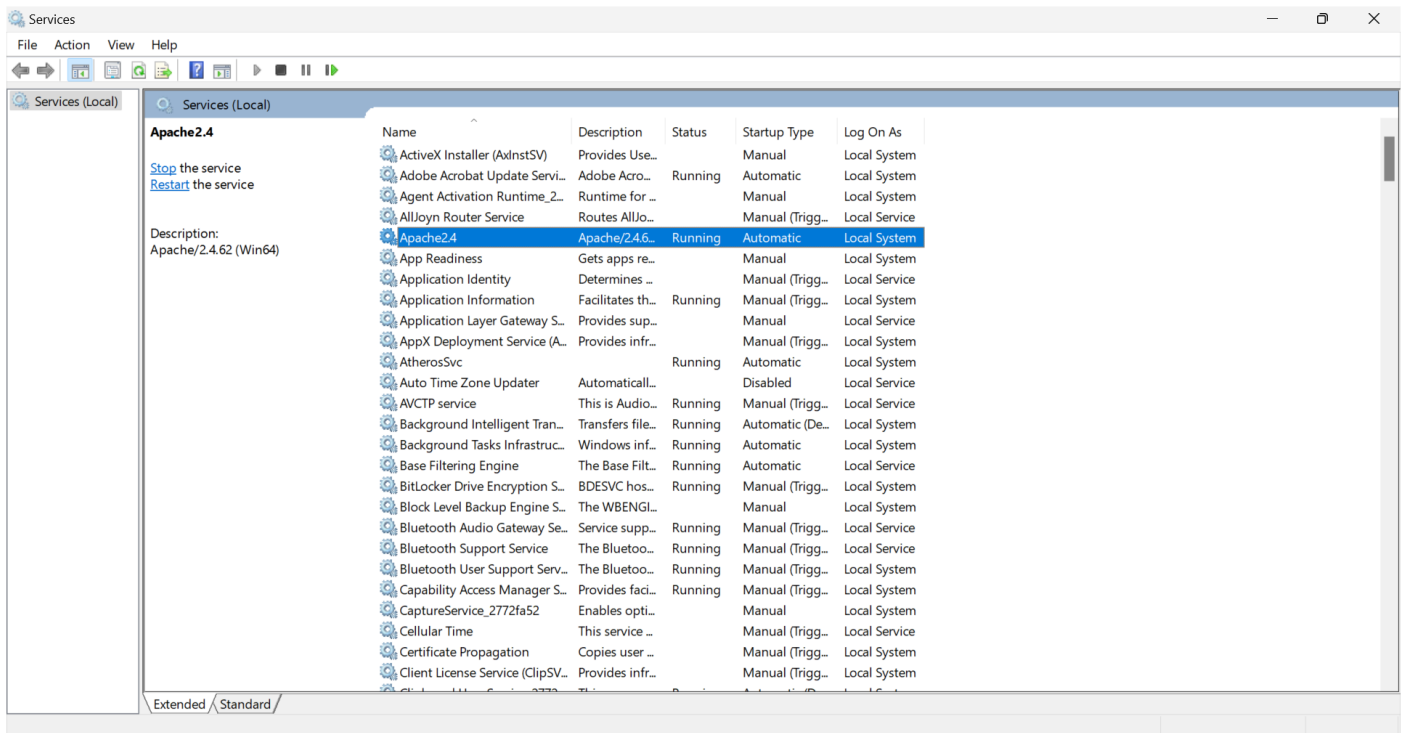
Then Run the installation command :

httpd -k install



Step 5 :

go to the services in the PC and search for apache2.4 and click the start button to start apache in your pc

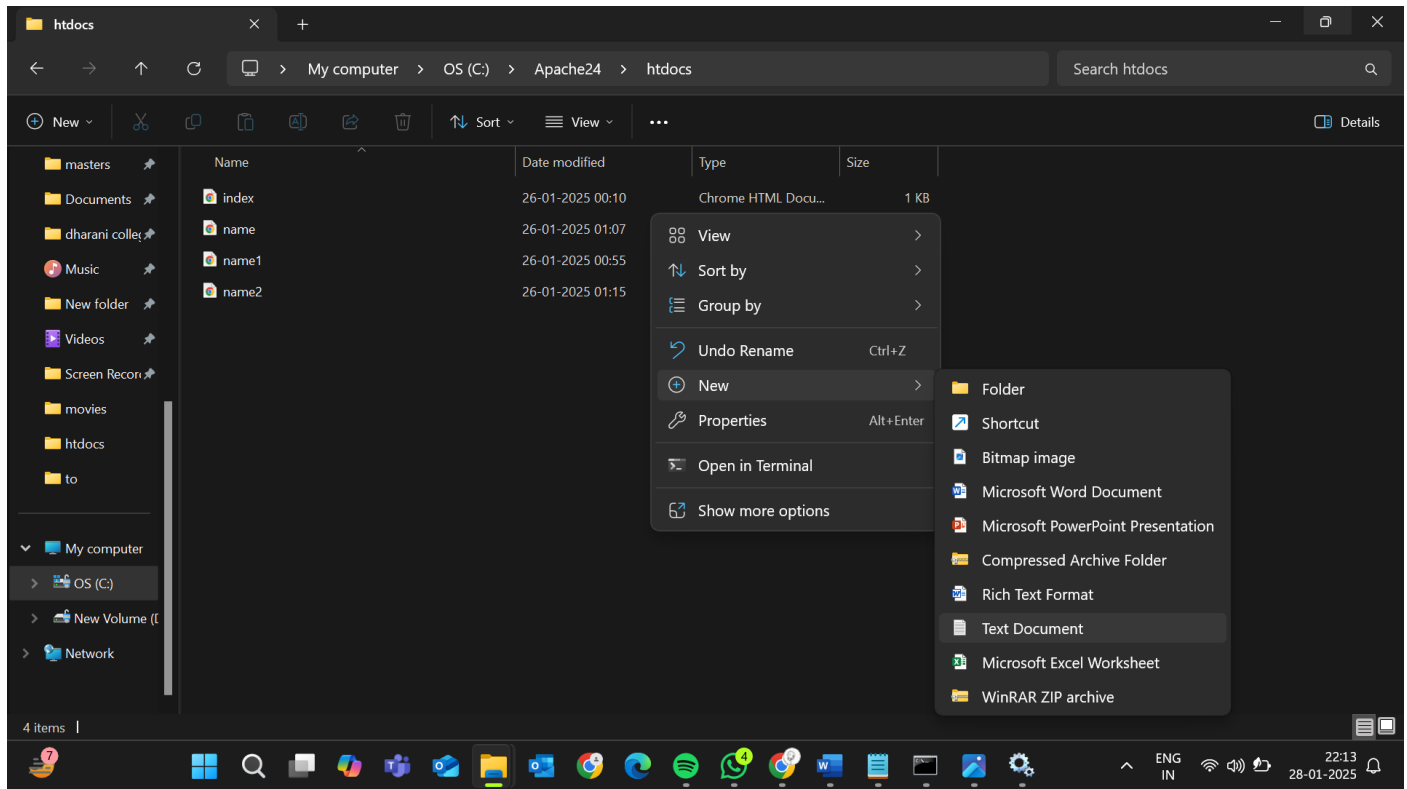


Step 6 :

- Apache's Document Root Directory

The document root is the directory where Apache serves files from. By default, it's often:

C:\Apache24\htdocs (if installed manually)



- Navigate to the Document Root

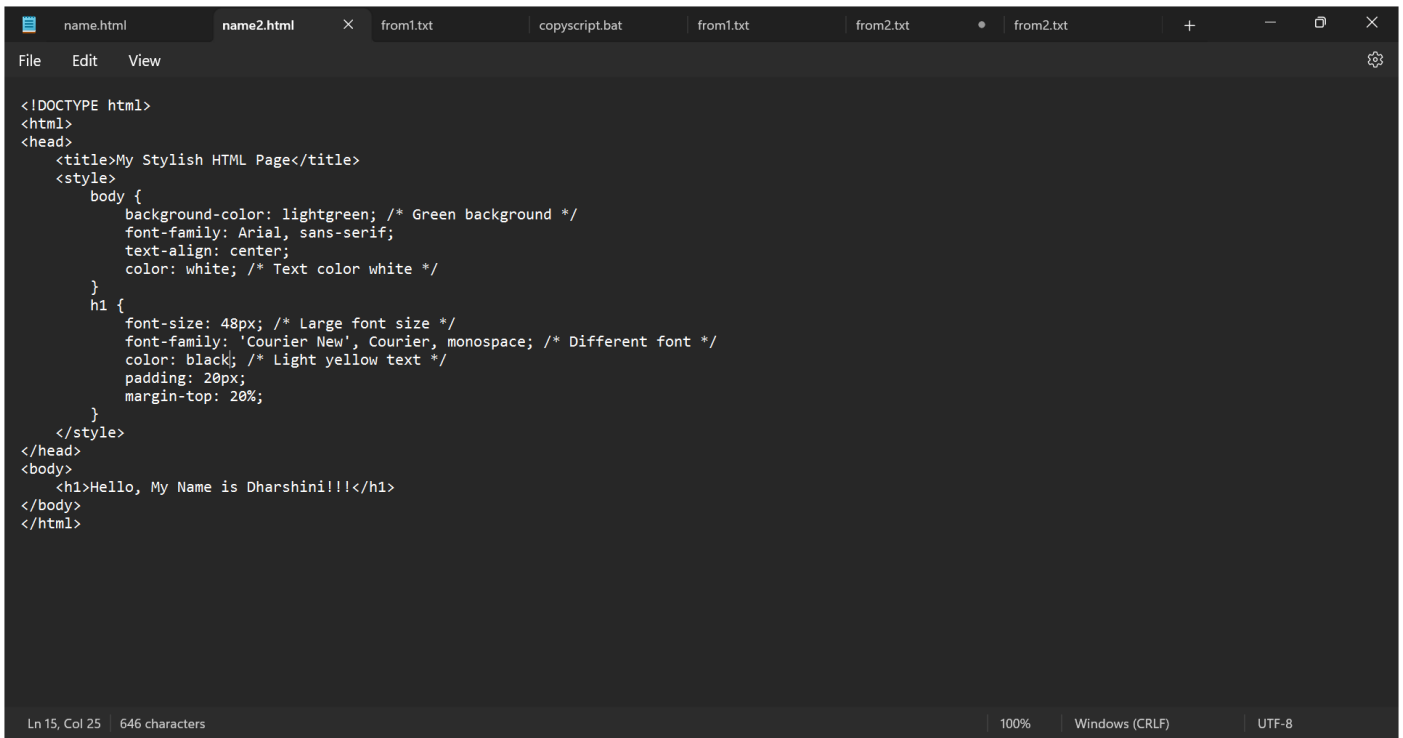
Open File Explorer and go to the document root directory.

- Create a New File

You can create a new file in the document root directory:

Using Notepad:

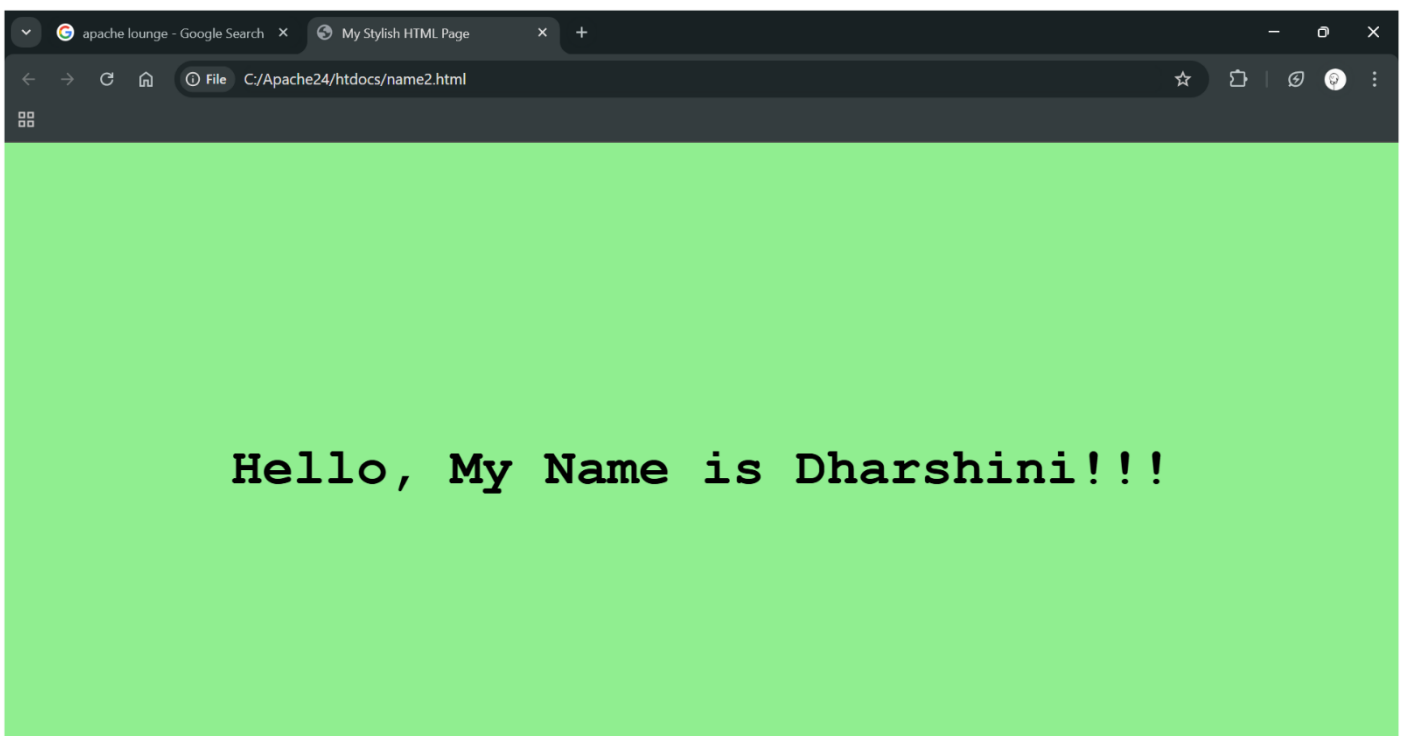
1. Right-click inside the folder, select New > Text Document.
2. Rename it (e.g., index.html).
3. Open the file with Notepad, add html code to create simple model to display your name, and save.



```
<!DOCTYPE html>
<html>
<head>
  <title>My Stylish HTML Page</title>
  <style>
    body {
      background-color: lightgreen; /* Green background */
      font-family: Arial, sans-serif;
      text-align: center;
      color: white; /* Text color white */
    }
    h1 {
      font-size: 48px; /* Large font size */
      font-family: 'Courier New', Courier, monospace; /* Different font */
      color: black; /* Light yellow text */
      padding: 20px;
      margin-top: 20%;
    }
  </style>
</head>
<body>
  <h1>Hello, My Name is Dharshini!!!</h1>
</body>
</html>
```

Step 7:

Open the chrome browser and type **localhost/index.html** in the address bar. You should be able to see the website hosted successfully.



Expected Outcome

By completing this POC, you will:

1. Successfully configure and run an Apache server locally.
2. Host a static HTML website that displays your name.
3. Understand the basics of web server configuration and file hosting.