

## About the project

Here we set up a web server and create a simple website using Flask, Python, and HTML/CSS. Flask is a small and lightweight Python web framework that provides useful tools and features that make creating web applications in Python easier. It gives developers flexibility and is a more accessible framework for new developers since we can build a web application quickly using only a single Python file. Flask is also extensible and doesn't force a particular directory structure or require complicated boilerplate code before getting started.

## Prerequisites

Before start following this guide, we will need:

- A local Python 3 programming environment, follow the tutorial for your distribution in [How To Install and Set Up a Local Programming Environment for Python 3](#) series for your local machine.
- You also need to install the Flask package. (This will be demonstrated in the latter part of this report accordingly.)

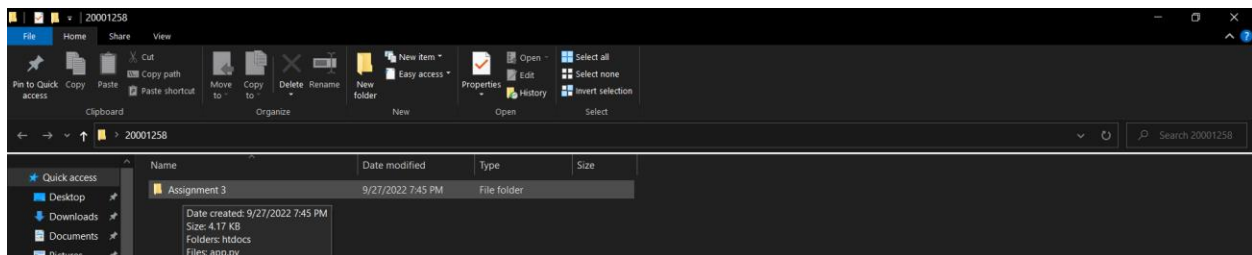
## Steps

Step 1- Download 20001258.zip file to the local machine.

Step 2- Extract zipped Files.

When you extract files from the zipped folder, a new folder with the same name is created which contains the files. The compressed (zipped) version also remains.

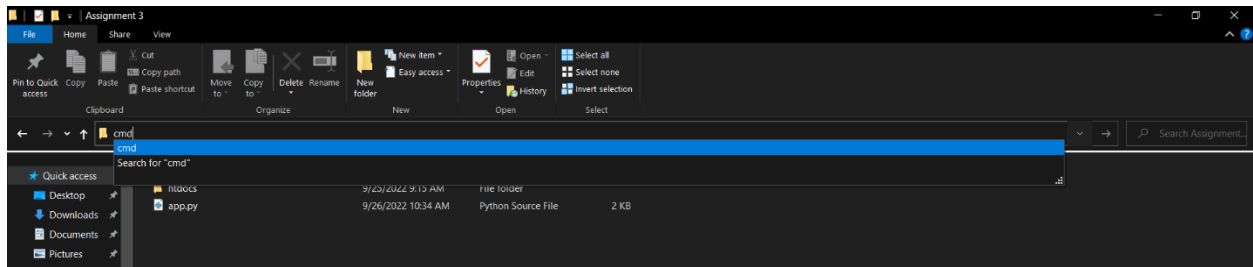
Step 3- Open the folder named 20001258 and there after, open “Assignment 3” file folder.



Step 4- Open Command Prompt Window in “Assignment 3” Folder.

1. Click on the location bar of Windows Explorer.
2. Then type **cmd** and press Enter key.

3. The command prompt will be opened in the folder.



### Step 5- Installing Flask

In this step, you'll activate your Python environment and install Flask using the pip package installer.

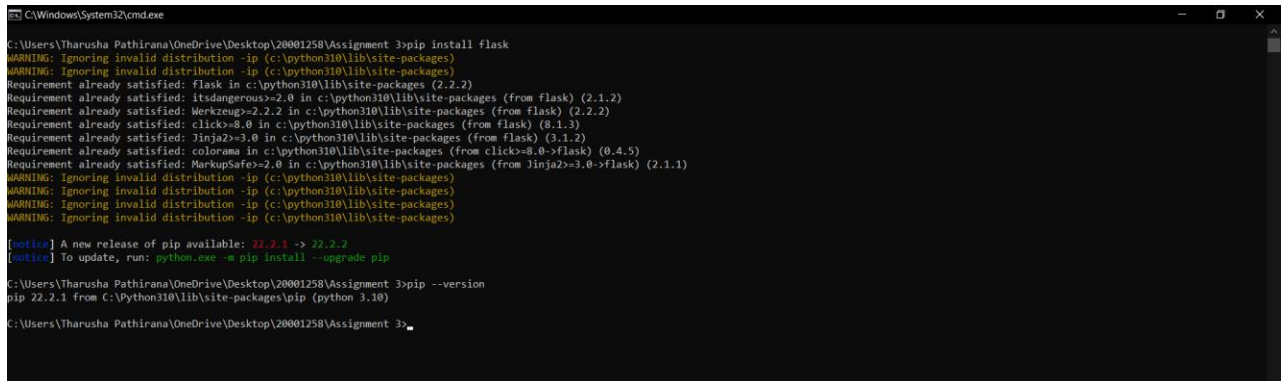
To install Flask, run the following command:

```
pip install flask
```

Once the installation is complete, run the following command to confirm the installation:

```
pip --version
```

The output will be a version number similar to the following:



Now you are ready to run the application.

### Step 6- Run the web application

Run the application using the “python app.py” command:

```
python app.py
```

Once the application is running the output will be something like this:

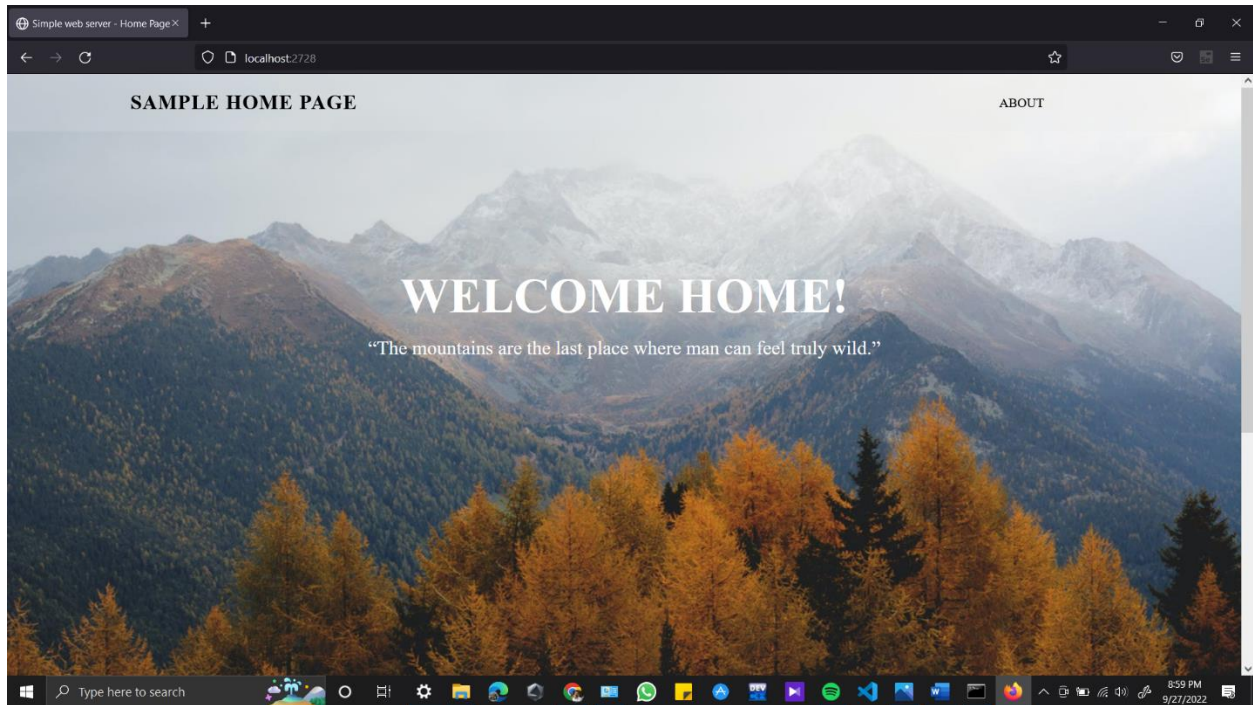
```
C:\Windows\System32\cmd.exe - python app.py
C:\Users\Tharusha Pathirana\OneDrive\Desktop\20001258\Assignment 3>python app.py
* Serving Flask app 'app'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://localhost:2728
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 930-365-766
```

The preceding output has several pieces of information, such as:

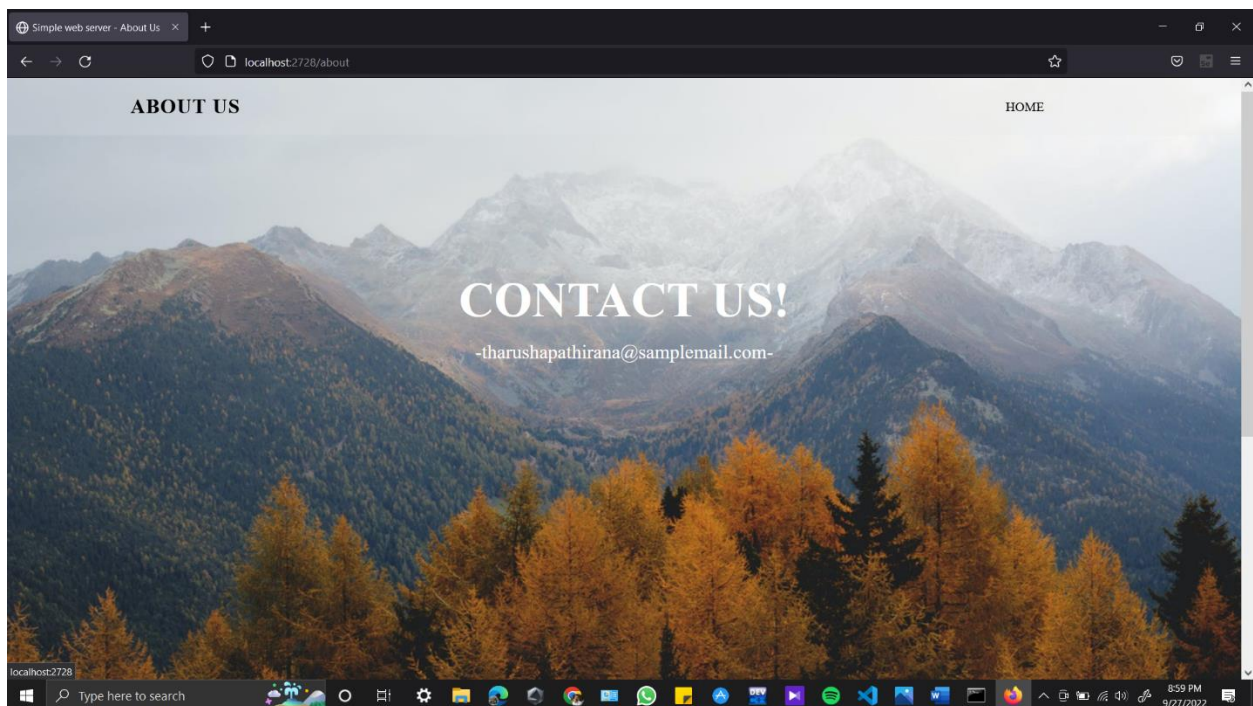
- The name of the application you're running.
- Debug mode: on signifies that the Flask debugger is running. This is useful when developing because it gives us detailed error messages when things go wrong, which makes troubleshooting easier.
- The application is running locally on the URL `http://localhost:2728`, 127.0.0.1 is the IP that represents your machine's localhost and :2728 is the port number.
- **Warning** Flask uses a simple web server to serve our application in a development environment, which also means that the Flask debugger is running to make catching errors easier. This development server should not be used in a production deployment. See the [Deployment Options](#) page on the Flask documentation for more information.

### Step 7- Final step

Open a browser and type in the URL **`http://localhost:2728/`**, you will receive below output as the response, this confirms that application is successfully running.



Home Page



About Us page

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Index No – 20001258