

NEWS TRACKER APPLICATION

Team ID: PNT2022TMID36388

Contents

- 1) Setting up of Environment
- 2) Creation of Flask Project

1)Setting Up of Project Environment

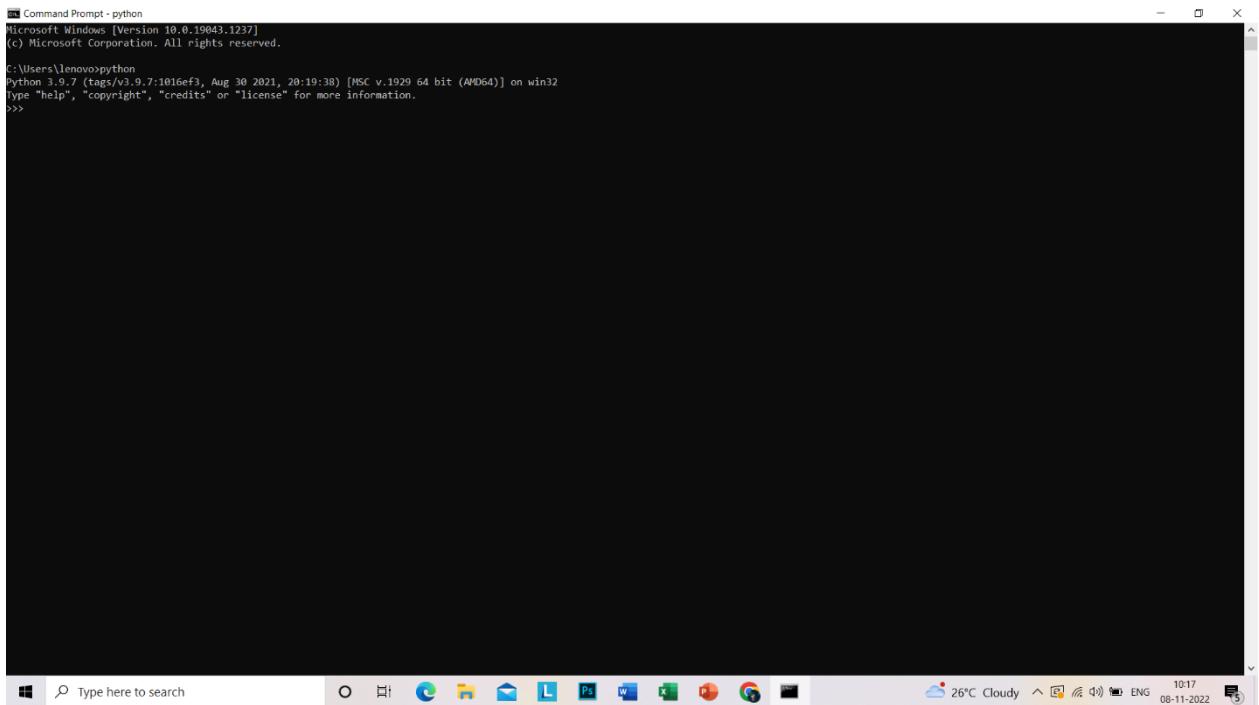
Step 1: Install Python (3.11.x), pip, IDLE



- Features like **PIP**, **IDLE**, py Launcher, Python test suite will be downloaded along with python
- Here PIP is used to manage and install python packages
- IDE to run programs

Step 2: Verification Of Installation

Verify the installation using command prompt

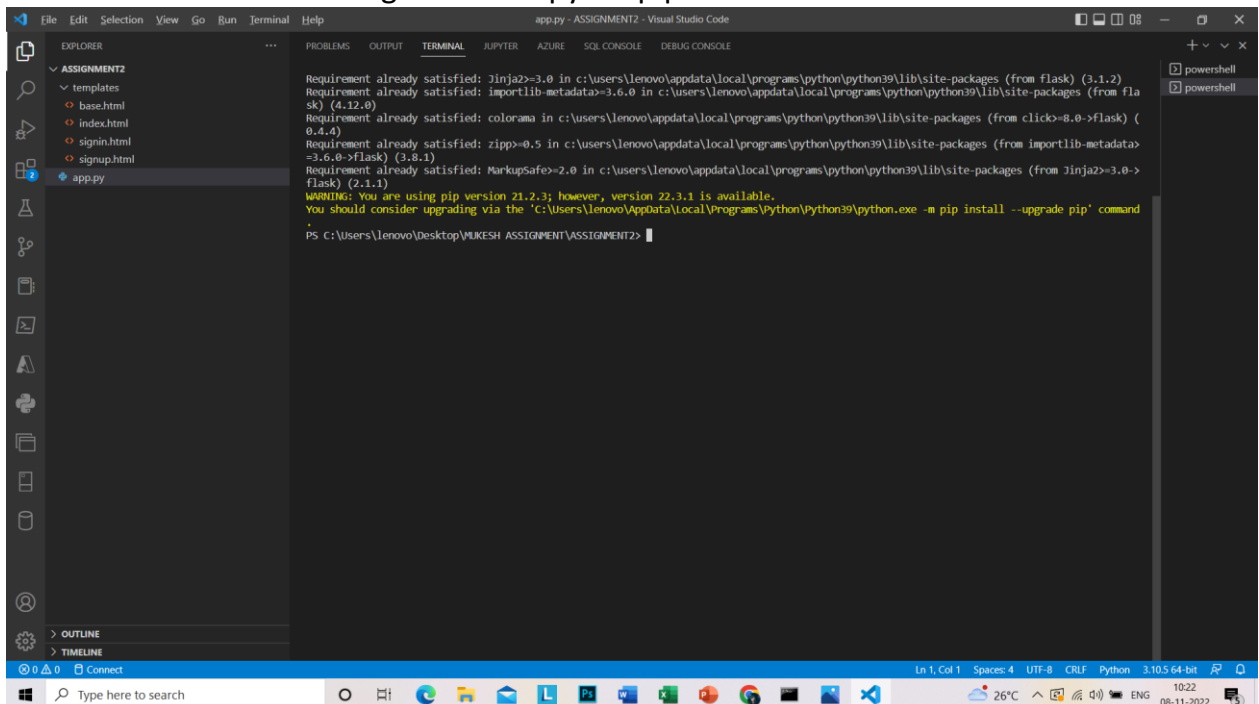


```
Command Prompt - python
Microsoft Windows [Version 10.0.19043.1237]
(c) Microsoft Corporation. All rights reserved.

C:\Users\lenovo>python
Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
```

Step 3 : Installing Flask

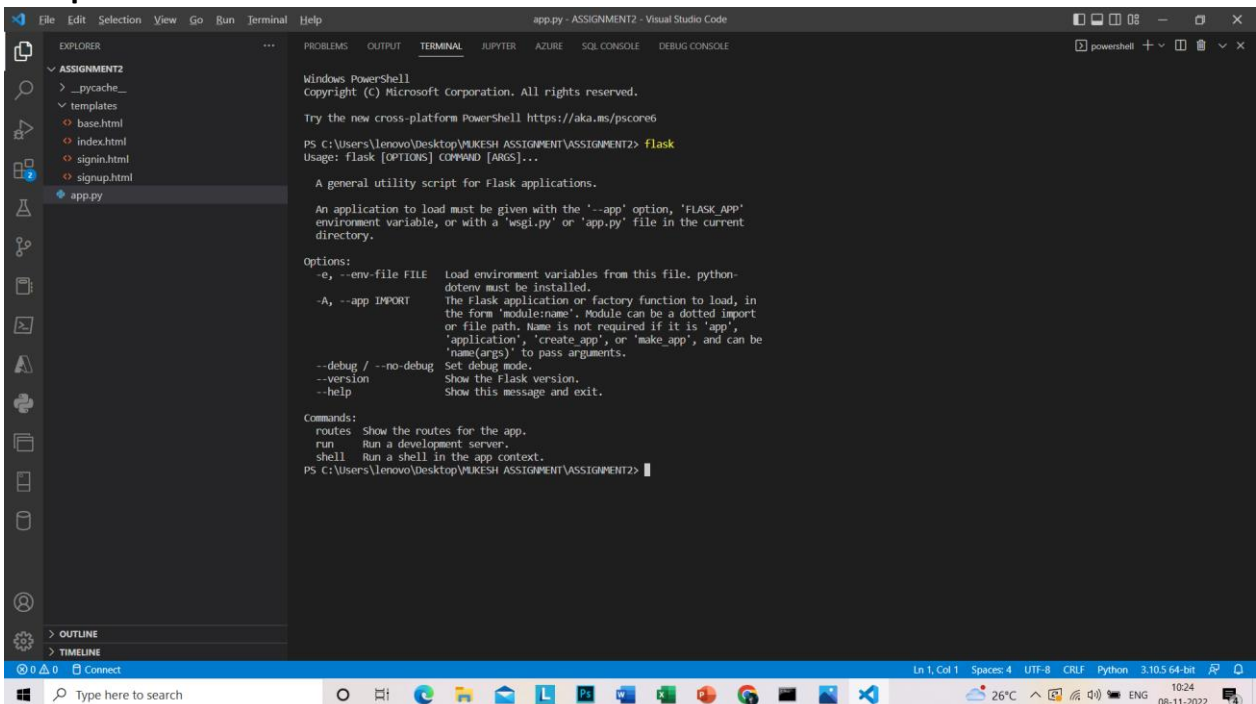
The Flask is installed using Terminal: `py -m pip install flask`



```
app.py - ASSIGNMENT2 - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER
  ASSIGNMENT2
    templates
      base.html
      index.html
      signin.html
      signup.html
    app.py
TERMINAL
  Requirement already satisfied: Jinja2=3.0 in c:\users\lenovo\appdata\local\programs\python\python39\lib\site-packages (from flask) (3.1.2)
  Requirement already satisfied: importlib-metadata=3.6.0 in c:\users\lenovo\appdata\local\programs\python\python39\lib\site-packages (from flask) (4.12.0)
  Requirement already satisfied: colorama in c:\users\lenovo\appdata\local\programs\python\python39\lib\site-packages (from click=8.0->flask) (0.4.4)
  Requirement already satisfied: zipp>=0.5 in c:\users\lenovo\appdata\local\programs\python\python39\lib\site-packages (from importlib-metadata=3.6.0->flask) (3.8.1)
  Requirement already satisfied: MarkupSafe>=2.0 in c:\users\lenovo\appdata\local\programs\python\python39\lib\site-packages (from Jinja2=3.0->flask) (2.1.1)
  WARNING: You are using pip version 21.2.3; however, version 22.3.1 is available.
  You should consider upgrading via the 'C:\Users\lenovo\AppData\Local\Programs\Python\Python39\python.exe -m pip install --upgrade pip' command
  PS C:\Users\lenovo\Desktop\VIKESH ASSIGNMENT\ASSIGNMENT2>
```

Hence, flask is already installed successfully

Step 5 : Verification of Flask Installation



The screenshot shows the Visual Studio Code interface with a terminal window open. The terminal displays the output of the 'flask' command, which shows the Flask version (2.2.2) and provides usage instructions. The Explorer pane on the left shows a project structure with files like 'app.py', 'base.html', 'index.html', 'signin.html', and 'signup.html'.

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

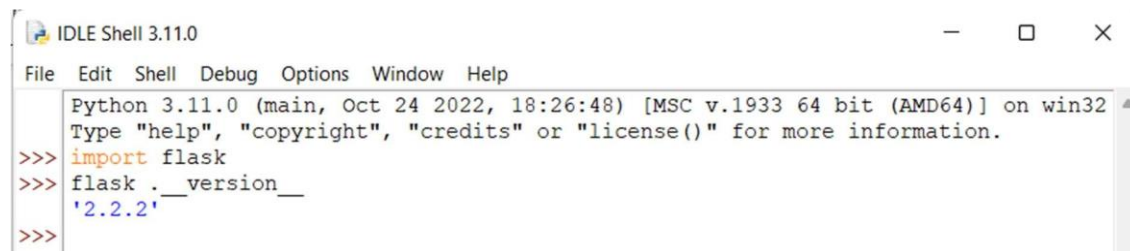
PS C:\Users\lenovo\Desktop\UKESH ASSIGNMENT\ASSIGNMENT2> flask
Usage: flask [OPTIONS] COMMAND [ARGS]...

A general utility script for Flask applications.

An application to load must be given with the '--app' option, 'FLASK_APP'
environment variable, or with a 'wsgi.py' or 'app.py' file in the current
directory.

Options:
  -e, --env-file FILE  load environment variables from this file. python-
                        dotenv must be installed.
  -A, --app IMPORT      The Flask application or factory function to load, in
                        the form 'module:name'. Module can be a dotted import
                        or file path. Name is not required if it is 'app',
                        'application', 'create_app', or 'make_app', and can be
                        'name(args)' to pass arguments.
  --debug / --no-debug  Set debug mode.
  --version             Show the Flask version.
  --help               Show this message and exit.

Commands:
  routes  Show the routes for the app.
  run     Run a development server.
  shell   Run a shell in the app context.
PS C:\Users\lenovo\Desktop\UKESH ASSIGNMENT\ASSIGNMENT2>
```

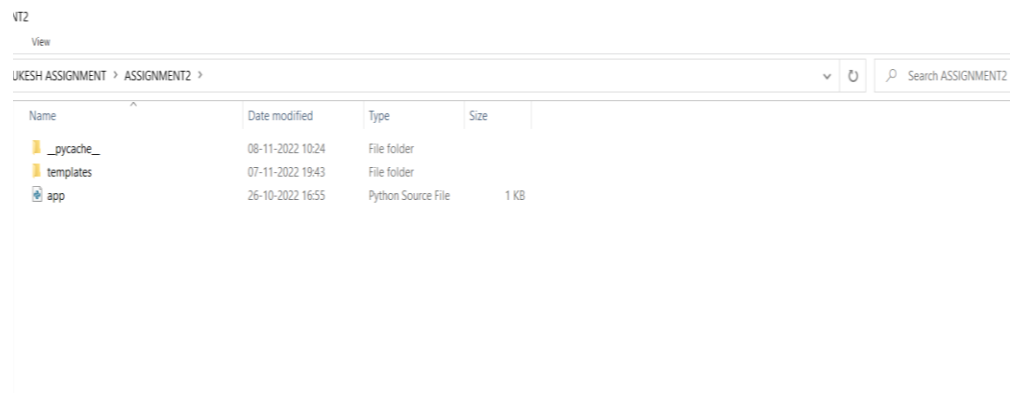


The screenshot shows the IDLE Shell 3.11.0 window. The terminal displays the output of the 'import flask' command, which successfully imports the Flask module. The prompt is now '>>>'.

```
IDLE Shell 3.11.0
File Edit Shell Debug Options Window Help
Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> import flask
>>> flask.__version__
'2.2.2'
>>>
```

2) Creation Flask Project

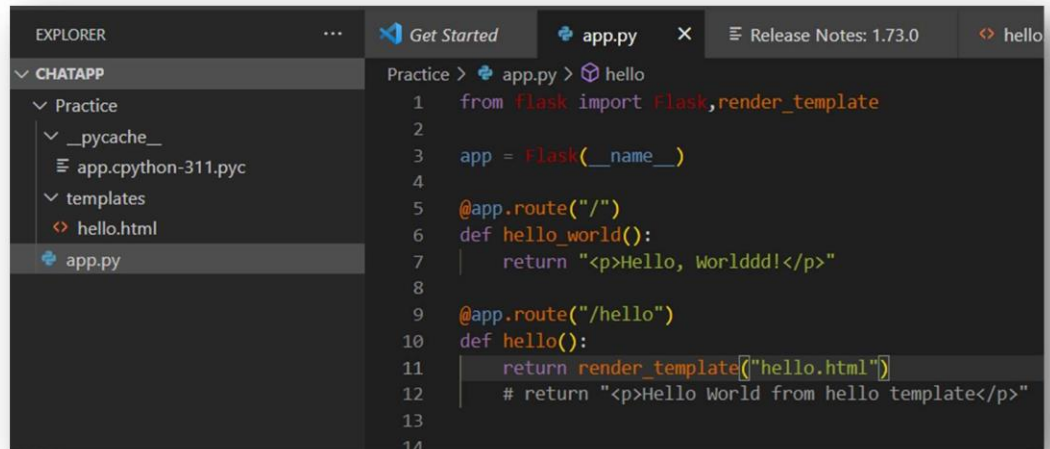
i) Folder structure



The screenshot shows a file explorer window displaying the project structure. The project is named 'UKESH ASSIGNMENT' and contains a subfolder 'ASSIGNMENT2'. Inside 'ASSIGNMENT2', there are three items: a folder named '_pycache_', a folder named 'templates', and a file named 'app.py'.

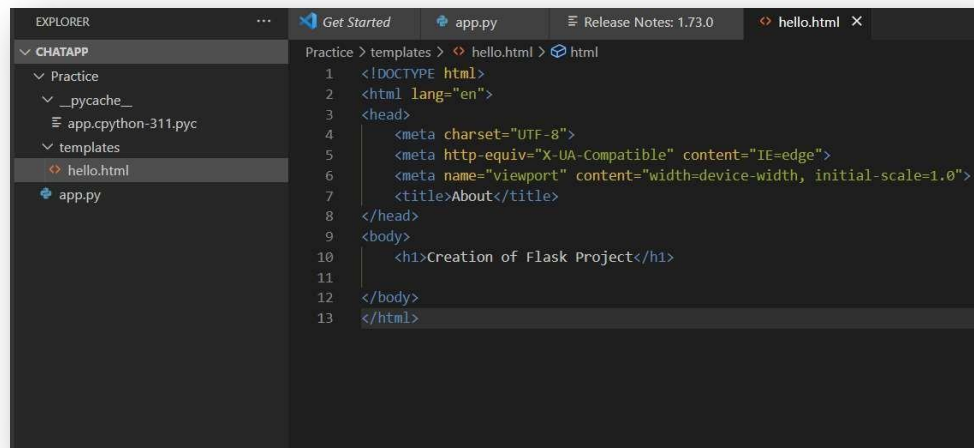
Name	Date modified	Type	Size
pycache	08-11-2022 10:24	File folder	
templates	07-11-2022 19:43	File folder	
app.py	26-10-2022 16:55	Python Source File	1 KB

ii) App.py file



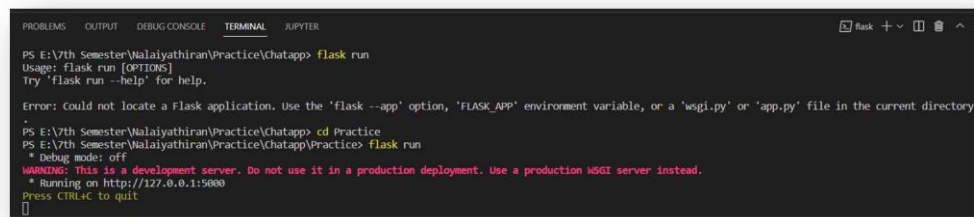
```
1 from flask import Flask, render_template
2
3 app = Flask(__name__)
4
5 @app.route("/")
6 def hello_world():
7     return "<p>Hello, Worldddd!</p>"
8
9 @app.route("/hello")
10 def hello():
11     return render_template("hello.html")
12     # return "<p>Hello World from hello template</p>"
13
14
```

iii) Template file(hello.html)



```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <meta http-equiv="X-UA-Compatible" content="IE=edge">
6     <meta name="viewport" content="width=device-width, initial-scale=1.0">
7     <title>About</title>
8 </head>
9 <body>
10     <h1>Creation of Flask Project</h1>
11
12 </body>
13 </html>
```

Terminal: run app.py file

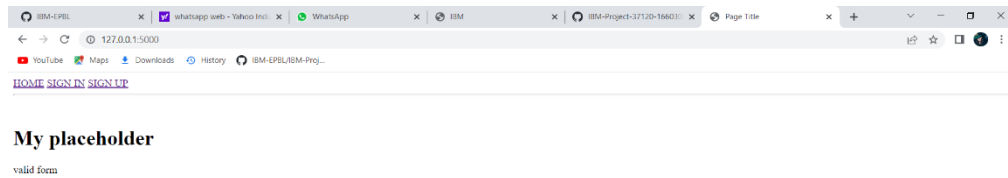


```
PS E:\7th Semester\Walayathiran\Practice\Chatapp> flask run
Usage: flask run [OPTIONS]
Try 'flask run --help' for help.

Error: Could not locate a Flask application. Use the 'flask --app' option, 'FLASK_APP' environment variable, or a 'wsgi.py' or 'app.py' file in the current directory.

PS E:\7th Semester\Walayathiran\Practice\Chatapp> cd Practice
PS E:\7th Semester\Walayathiran\Practice\Chatapp\Practices> flask run
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on http://127.0.0.1:5000
Press CTRL+C to quit
```

iv) Default route result



http://127.0.0.1:5000