

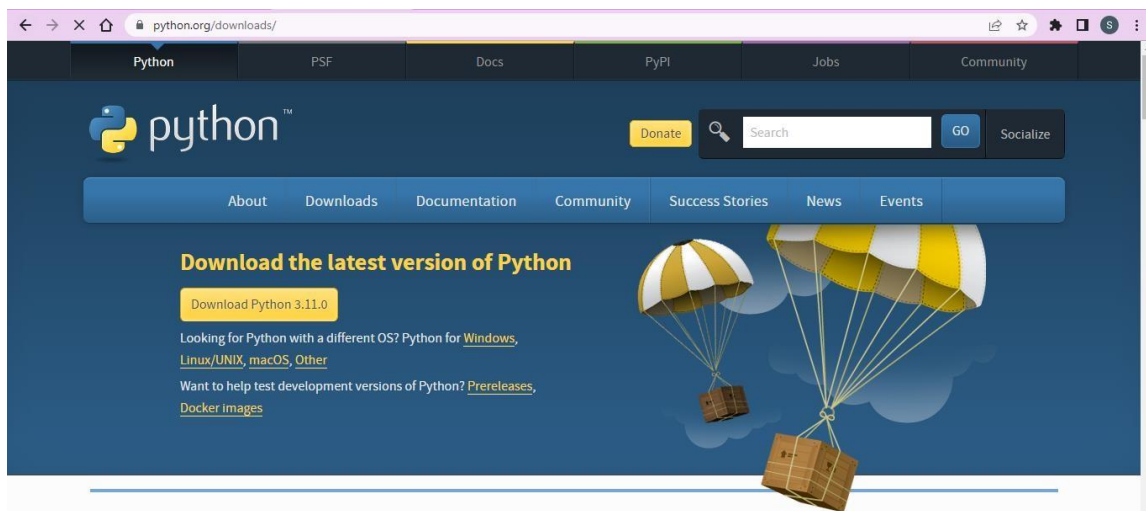
SETTING UP APPLICATION ENVIRONMENT

CREATE FLASK PROJECT

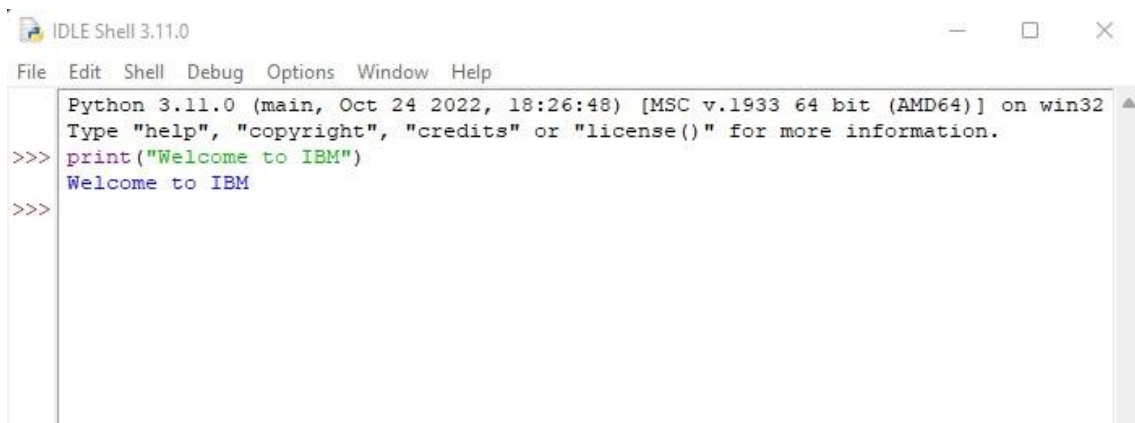
Date	10 th October 2022
Team ID	PNT2022TMID27406
Project Name	News Tracker Application

SETTING UP OF PROJECT ENVIRONMENT

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



Step 2: Verification of Installation



Step 3: Installing Flask

Install flask using command: `py -m pip install flask`

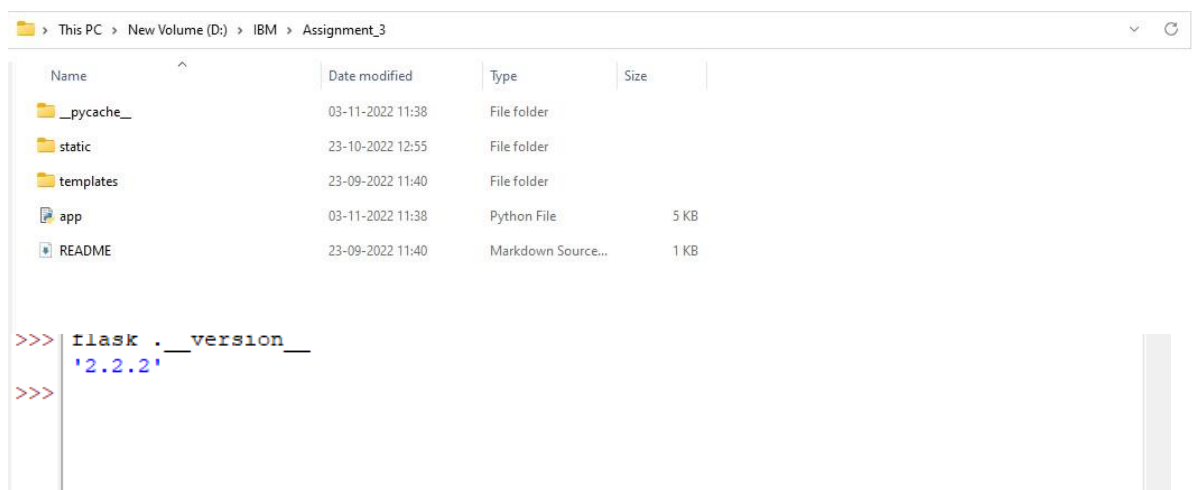
```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.22000.1098]
(c) Microsoft Corporation. All rights reserved.

C:\Users\SHOBIKA VENKAT>py -m pip install flask
Requirement already satisfied: flask in c:\users\shobika venkat\appdata\local\programs\python\python311\lib\site-packages (2.2.2)
Requirement already satisfied: Werkzeug>=2.2.2 in c:\users\shobika venkat\appdata\local\programs\python\python311\lib\site-packages (from flask) (2.2.2)
Requirement already satisfied: Jinja2>=3.0 in c:\users\shobika venkat\appdata\local\programs\python\python311\lib\site-packages (from flask) (3.1.2)
Requirement already satisfied: itsdangerous>=2.0 in c:\users\shobika venkat\appdata\local\programs\python\python311\lib\site-packages (from flask) (2.1.2)
Requirement already satisfied: click>=8.0 in c:\users\shobika venkat\appdata\local\programs\python\python311\lib\site-packages (from flask) (8.1.3)
Requirement already satisfied: colorama in c:\users\shobika venkat\appdata\local\programs\python\python311\lib\site-packages (from click>=8.0->flask) (0.4.6)
Requirement already satisfied: MarkupSafe>=2.0 in c:\users\shobika venkat\appdata\local\programs\python\python311\lib\site-packages (from Jinja2>=3.0->flask) (2.1.1)
```

Step 4: Verification of Flask installation

CREATION OF FLASK PROJECT

a) Folder structure

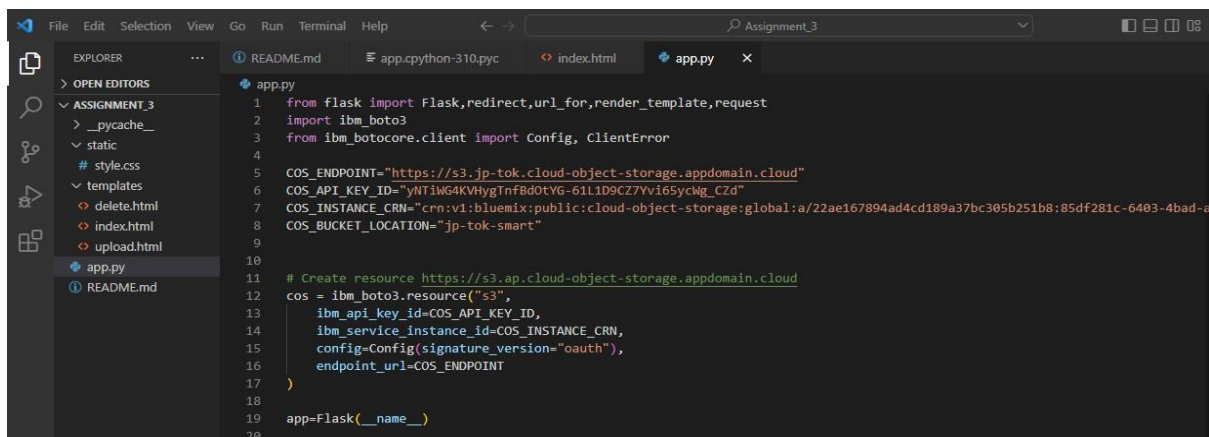


The image shows a file explorer window for a project named 'Assignment_3' located on 'New Volume (D:)'. The project contains the following files and folders:

Name	Date modified	Type	Size
__pycache__	03-11-2022 11:38	File folder	
static	23-10-2022 12:55	File folder	
templates	23-09-2022 11:40	File folder	
app	03-11-2022 11:38	Python File	5 KB
README	23-09-2022 11:40	Markdown Source...	1 KB

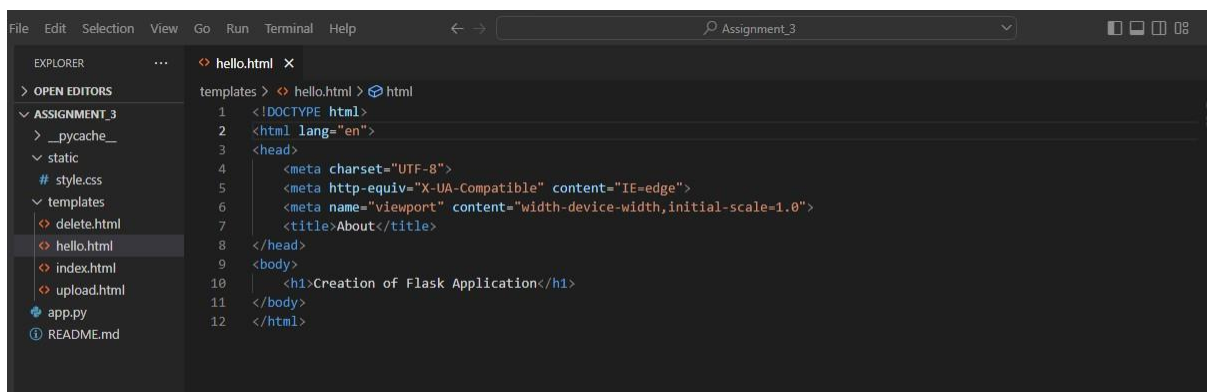
Below the file explorer, a terminal window shows the command `flask . __version__` being executed, which returns the output `'2.2.2'`.

b) app.py file



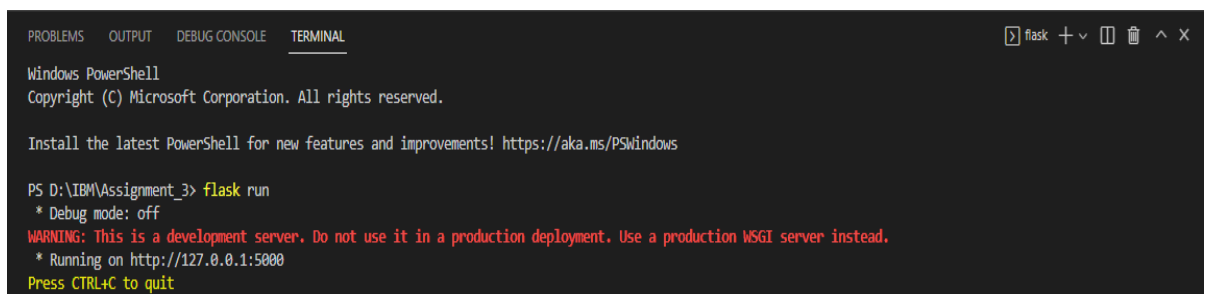
```
1 from flask import Flask, redirect, url_for, render_template, request
2 import ibm_boto3
3 from ibm_botocore.client import Config, ClientError
4
5 COS_ENDPOINT="https://s3.jp-tok.cloud-object-storage.appdomain.cloud"
6 COS_API_KEY_ID="yNT1W64KVhygTnf8d0tYG-611d9CZ7Vvi6SycWg_CZd"
7 COS_INSTANCE_CRN="crn:v1:bluemix:public:cloud-object-storage:global:a/22ae167894ad4cd189a37bc305b251b8:85df281c-6403-4bad-a
8 COS_BUCKET_LOCATION="jp-tok-smart"
9
10
11 # Create resource https://s3.ap.cloud-object-storage.appdomain.cloud
12 cos = ibm_boto3.resource("s3",
13     ibm_api_key_id=COS_API_KEY_ID,
14     ibm_service_instance_id=COS_INSTANCE_CRN,
15     config=Config(signature_version="oauth"),
16     endpoint_url=COS_ENDPOINT
17 )
18
19 app=Flask(__name__)
20
```

c) 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 Application</h1>
11 </body>
12 </html>
```

d) Terminal run : app.py file



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS D:\IBM\Assignment_3> flask run
 * Debug mode: off
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
```

e) Application



Creation of Flask Project