

SETTING UP APPLICATION ENVIRONMENT

CREATE A FLASK PROJECT

Flask is a micro web framework written in Python. It is classified as a microframework because it does not require particular tools or libraries. It has no database abstraction layer, form validation, or any other components where pre-existing third-party libraries provide common functions.

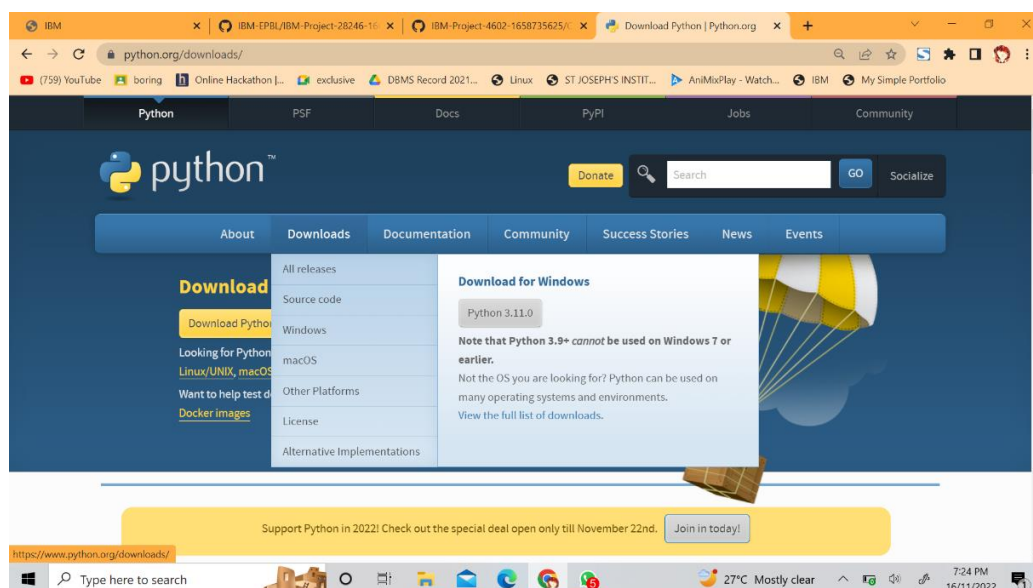
The steps to create and execute a flask program is mentioned below.

STEPS TO CREATE A FLASK PROJECT

The following steps are followed to create the flask project.

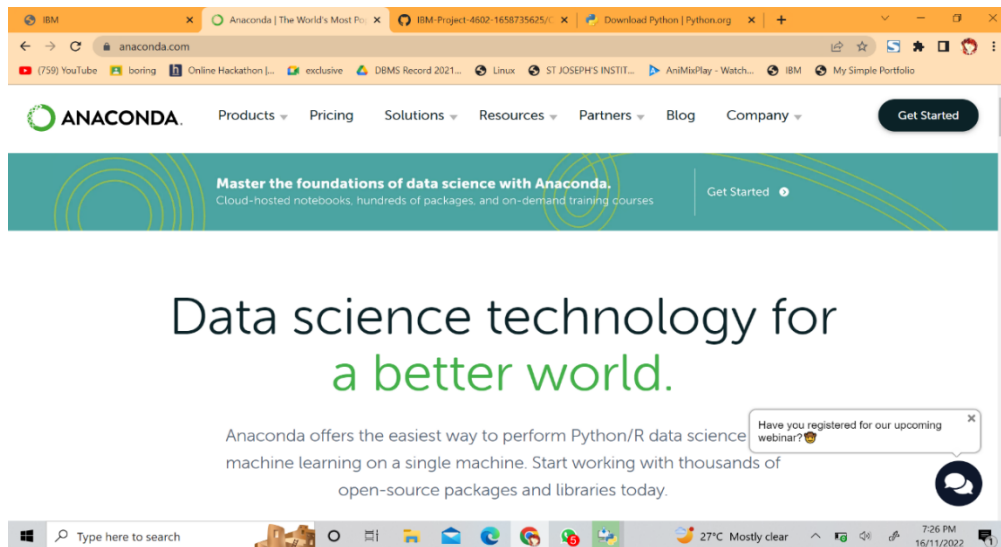
STEP 1: PYTHON INSTALLATION

- The latest version of python is downloaded from **PYTHON.ORG**.
- Install python by running the setup file.



STEP 2 : ANACONDA INSTALLATION

- The latest version of Anaconda is downloaded from their official site.
<https://www.anaconda.com/>
- Its then installed by running the setup file.



STEP 3 : INSTALL FLASK

Flask is installed using the command **pip install flask**.

This screenshot shows a Windows PowerShell terminal window within Visual Studio Code. The terminal displays the command 'python --version' which returns 'Python 3.11.0'. The user then enters 'pip install flask'. The output shows that the installation is successful, with various dependencies like Werkzeug, Jinja2, itsdangerous, click, colorama, and MarkupSafe being installed or updated. A notice at the bottom indicates that a new release of pip is available (22.3 -> 22.3.1) and suggests running 'python.exe -m pip install --upgrade pip'. The Windows taskbar at the bottom shows the time as 8:31 PM on 16/11/2022.This screenshot shows a Windows PowerShell terminal window within Visual Studio Code. The terminal displays the command 'python --version' which returns 'Python 3.11.0'. The user then enters 'pip install flask'. The output shows that the installation is successful, with various dependencies like Werkzeug, Jinja2, itsdangerous, click, colorama, and MarkupSafe being installed or updated. A notice at the bottom indicates that a new release of pip is available (22.3 -> 22.3.1) and suggests running 'python.exe -m pip install --upgrade pip'. The Windows taskbar at the bottom shows the time as 8:31 PM on 16/11/2022.

STEP 4 : CREATE THE PROGRAM

- A new python file is created .
- The program is coded and executed.

PROGRAM

```
from flask import Flask
```

```
app = Flask(__name__)
```

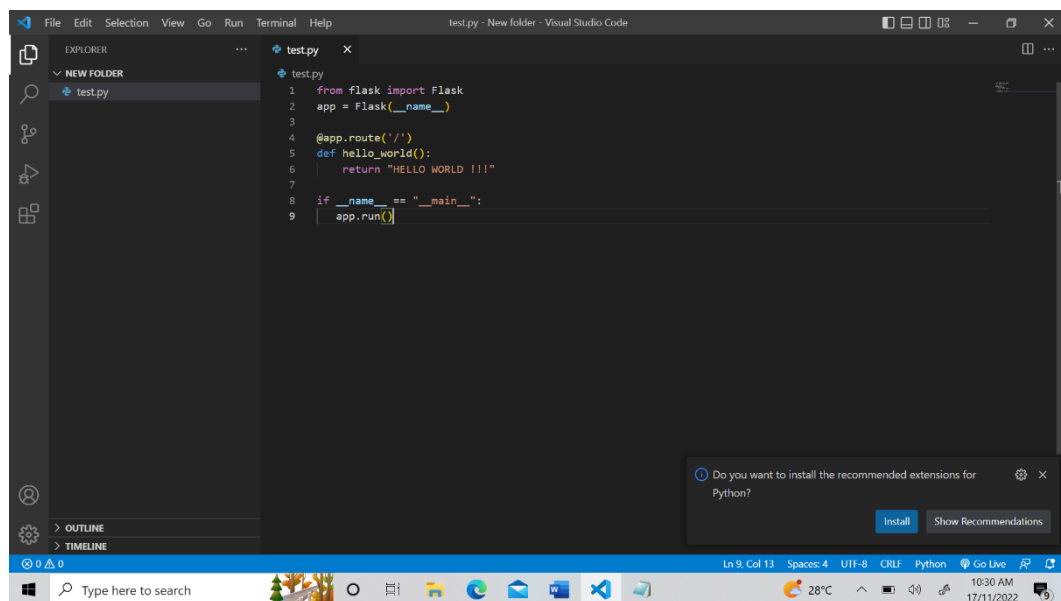
```
@app.route('/')
```

```
def hello_world():
```

```
    return "HELLO WORLD !!!"
```

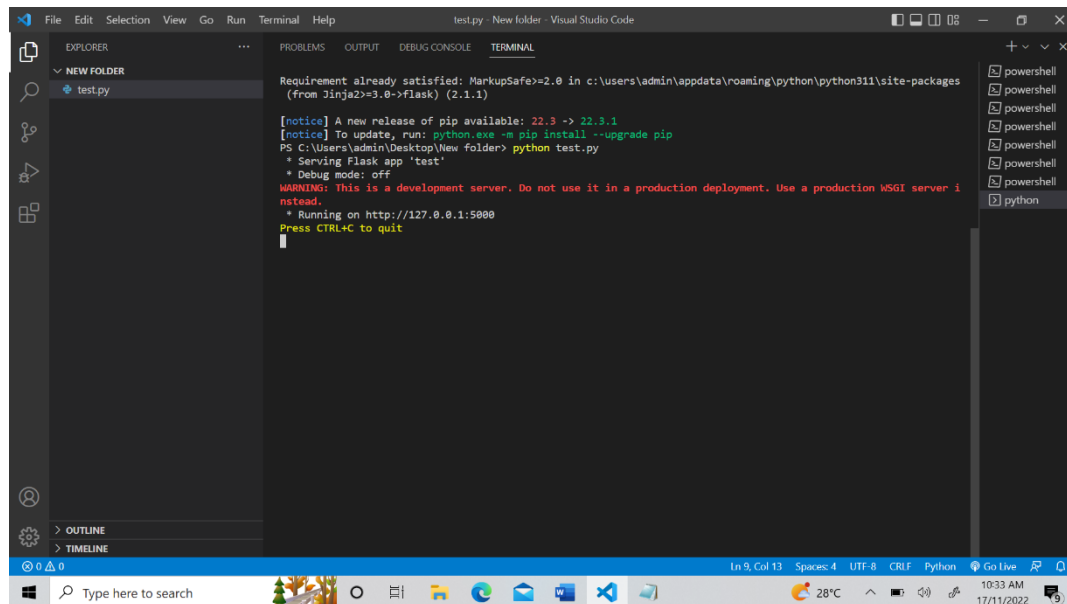
```
if __name__ == "__main__":
```

```
    app.run()
```



STEP 5 : EXECUTION

- The program is executed using the command **python filename.py**
- An ip address is generated.



The screenshot shows the Visual Studio Code interface with a terminal window open. The terminal displays the following output:

```
Requirement already satisfied: MarkupSafe>=2.0 in c:\users\admin\appdata\roaming\python\python311\site-packages (from Jinja2>=3.0->Flask) (2.1.1)

[notice] A new release of pip available: 22.3 -> 22.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip
PS C:\Users\admin\Desktop\New folder> python test.py
* Serving Flask app 'test'
* 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
```

STEP 6 : OUTPUT

- The ip address is opened in a web browser.

