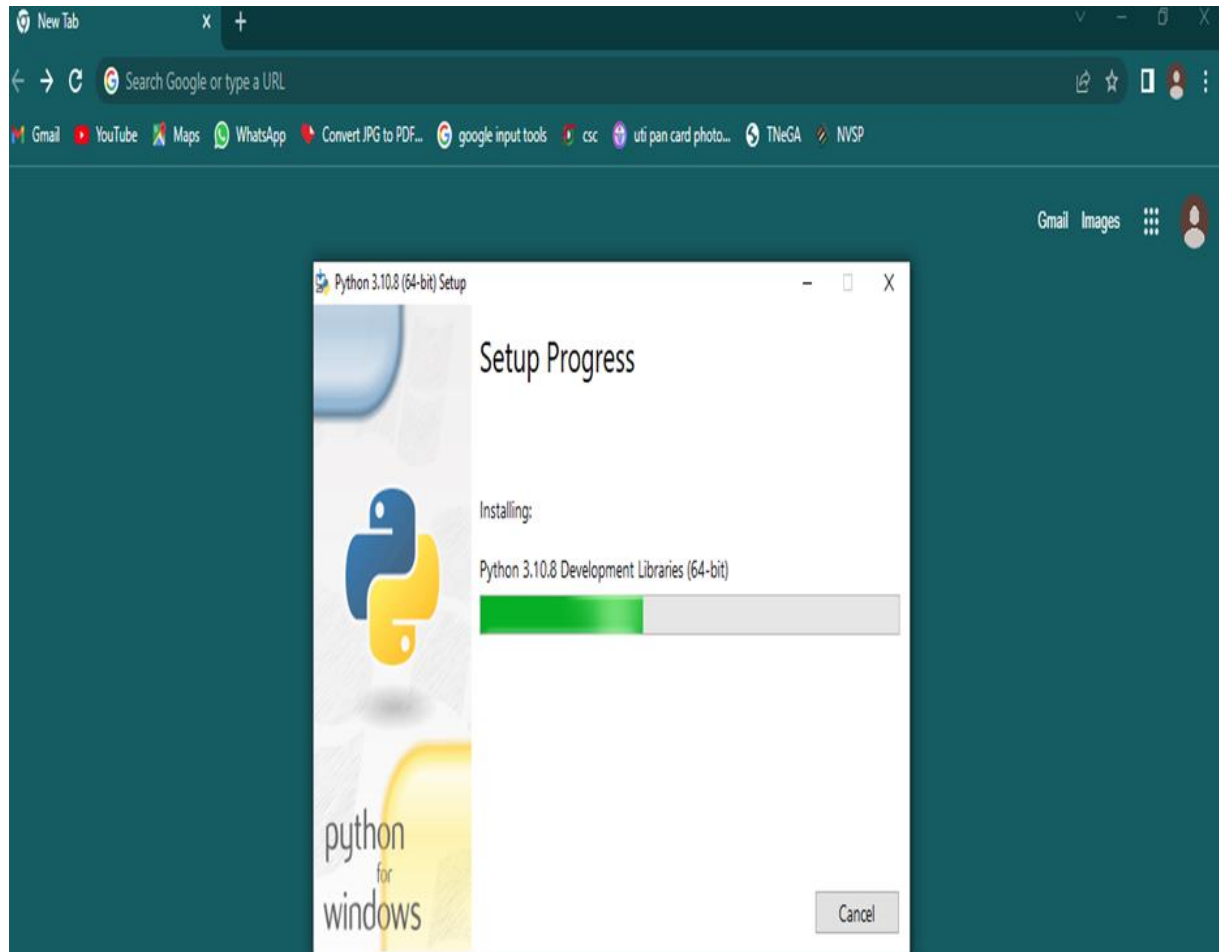


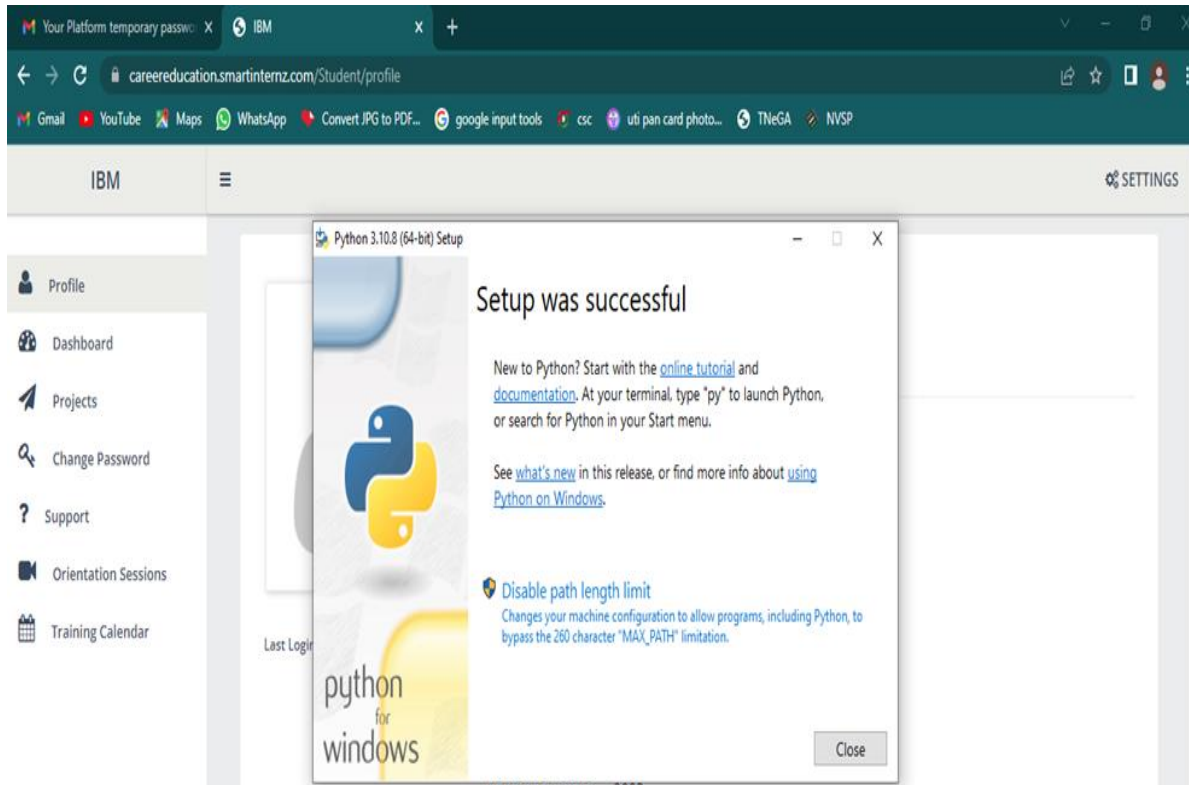
M.Pavatharani

Create Flask

Task 1

Create Flask Process:





Flask Installation Command Prompt:

```
Command Prompt - flask run
Microsoft Windows [Version 10.0.19044.2130]
(c) Microsoft Corporation. All rights reserved.

C:\Users\anj>cd\

C:\>mkdir myflask

C:\>cd myflask

C:\myflask>py -m venv env

C:\myflask>env\scripts\activate

(env) C:\myflask>pip install flask
Collecting flask
  Using cached Flask-2.2.2-py3-none-any.whl (101 kB)
Collecting click>=8.0
  Using cached click-8.1.3-py3-none-any.whl (96 kB)
Collecting itsdangerous>=2.0
  Using cached itsdangerous-2.1.2-py3-none-any.whl (15 kB)
Collecting Werkzeug>=2.2.2
  Using cached Werkzeug-2.2.2-py3-none-any.whl (232 kB)
Collecting Jinja2>=3.0
  Using cached Jinja2-3.1.2-py3-none-any.whl (133 kB)
Collecting colorama
  Using cached colorama-0.4.5-py2.py3-none-any.whl (16 kB)
Collecting MarkupSafe>=2.0
  Using cached MarkupSafe-2.1.1-cp310-cp310-win_amd64.whl (17 kB)
Installing collected packages: MarkupSafe, itsdangerous, colorama, Werkzeug, Jinja2, click, flask
Successfully installed Jinja2-3.1.2 MarkupSafe-2.1.1 Werkzeug-2.2.2 click-8.1.3 colorama-0.4.5 flask-2.2.2 itsdangerous-2.1.2

[notice] A new release of pip available: 22.2.2 -> 22.3
[notice] To update, run: python.exe -m pip install --upgrade pip

(env) C:\myflask>python.exe -m pip install --upgrade pip
Requirement already satisfied: pip in c:\myflask\env\lib\site-packages (22.2.2)
Collecting pip
  Downloading pip-22.3-py3-none-any.whl (2.1 MB)
----- 2.1/2.1 MB 1.6 MB/s eta 0:00:00
Installing collected packages: pip
  Attempting uninstall: pip
    Found existing installation: pip 22.2.2
    Uninstalling pip-22.2.2:
      Successfully uninstalled pip-22.2.2
```

Command Prompt - flask run

```
Collecting colorama
  Using cached colorama-0.4.5-py2.py3-none-any.whl (16 kB)
Collecting MarkupSafe>=2.0
  Using cached MarkupSafe-2.1.1-cp310-cp310-win_amd64.whl (17 kB)
Installing collected packages: MarkupSafe, itsdangerous, colorama, Werkzeug, Jinja2, click, flask
Successfully installed Jinja2-3.1.2 MarkupSafe-2.1.1 Werkzeug-2.2.2 click-8.1.3 colorama-0.4.5 flask-2.2.2 itsdangerous-2.1.2
```

```
[notice] A new release of pip available: 22.2.2 -> 22.3
[notice] To update, run: python.exe -m pip install --upgrade pip
```

```
(env) C:\myflask> python.exe -m pip install --upgrade pip
Requirement already satisfied: pip in c:\myflask\env\lib\site-packages (22.2.2)
```

```
Collecting pip
  Downloading pip-22.3-py3-none-any.whl (2.1 MB)
----- 2.1/2.1 MB 1.6 MB/s eta 0:00:00
```

```
Installing collected packages: pip
  Attempting uninstall: pip
    Found existing installation: pip 22.2.2
    Uninstalling pip-22.2.2:
      Successfully uninstalled pip-22.2.2
Successfully installed pip-22.3
```

```
(env) C:\myflask>set FLASK-APP=app.py
```

```
(env) C:\myflask>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
```

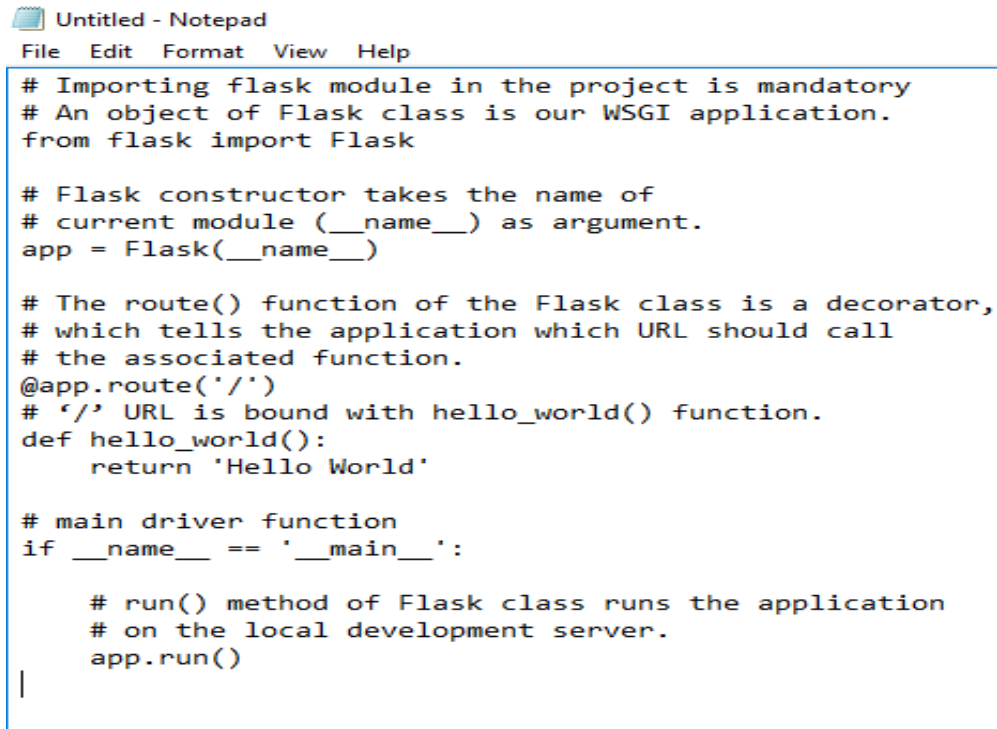
```
Press CTRL+C to quit
```

```
127.0.0.1 - - [19/Oct/2022 23:26:54] "GET / HTTP/1.1" 200 -
```

```
127.0.0.1 - - [19/Oct/2022 23:26:54] "GET /favicon.ico HTTP/1.1" 404 -
```



Sample Flask Code in Notepad:

A screenshot of a Notepad window titled 'Untitled - Notepad'. The menu bar includes 'File', 'Edit', 'Format', 'View', and 'Help'. The code is written in a monospaced font and includes comments explaining each step: importing Flask, creating an app instance, defining a route for the root URL, and running the application on the local development server.

```

# Importing flask module in the project is mandatory
# An object of Flask class is our WSGI application.
from flask import Flask

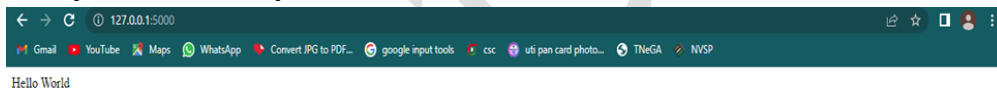
# Flask constructor takes the name of
# current module (__name__) as argument.
app = Flask(__name__)

# The route() function of the Flask class is a decorator,
# which tells the application which URL should call
# the associated function.
@app.route('/')
# '/' URL is bound with hello_world() function.
def hello_world():
    return 'Hello World'

# main driver function
if __name__ == '__main__':

    # run() method of Flask class runs the application
    # on the local development server.
    app.run()
```

Sample Code Output:

A screenshot of a web browser window showing the output of the Flask application. The address bar displays '127.0.0.1:5000'. The browser's tab bar shows several open tabs, including 'Gmail', 'YouTube', 'Maps', 'WhatsApp', 'Convert JPG to PDF...', 'google input tools', 'csc', 'uti pan card photo...', 'TNeGA', and 'NVSP'. The main content area of the browser displays the text 'Hello World'.

Sample code in idle:

```
*IDLE Shell 3.10.7 - C:/Users/arj/Desktop/flask1.html (3.10.7)*
File Edit Shell Debug Options Window Help
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> # Importing flask module in the project is mandatory
... # An object of Flask class is our WSGI application.
... from flask import Flask
...
... # Flask constructor takes the name of
... # current module (__name__) as argument.
... app = Flask(__name__)
...
... # The route() function of the Flask class is a decorator,
... # which tells the application which URL should call
... # the associated function.
... @app.route('/')
... # '/' URL is bound with hello_world() function.
... def hello_world():
...     return 'Hello World'
...
... # main driver function
... if __name__ == '__main__':
...
...     # run() method of Flask class runs the application
...     # on the local development server.
...     app.run()
```

Idle Output:

```
< > ↻ ⓘ File | C:/Users/arj/Desktop/flask1.html ⌂ ☆ 🗖 👤 ⋮
📺 YouTube 📍 Maps 📧 Gmail
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> # Importing flask module in the project is mandatory ... # An object of Flask class is our WSGI application. ... from flask import Flask ... # Flask constructor takes the name of ... # current module (__name__) as argument. ... app = Flask(__name__) ... # The route() function of the Flask class is a decorator, ... # which tells the application which URL should call ... # the associated function. ... @app.route('/') ... # '/' URL is bound with hello_world() function. ... def hello_world(): ... return 'Hello World' ... # main driver function ... if __name__ == '__main__': ... # run() method of Flask class runs the application ... # on the local development server.
```