

# SETTING UP ENVIRONMENT

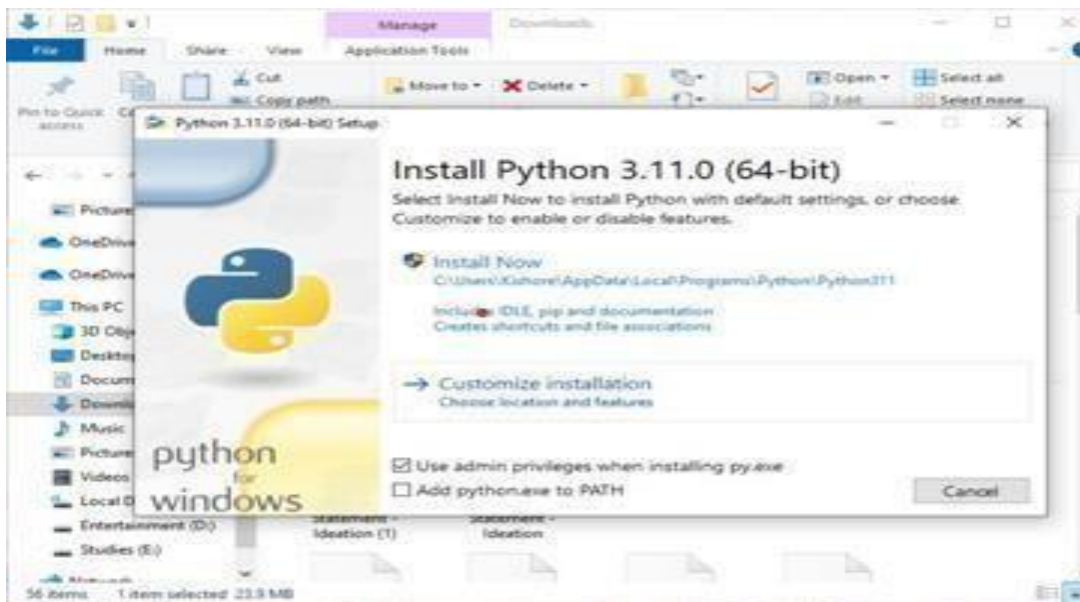
## Create Flask Project

Team ID	PNT2022TMID12046
Project Name	Plasma Donor Application

**Step 1:** Beginning the Flask installation with python installation from the official account:

<https://www.python.org/>.

Run the python setup and install the newest version of python.



**Step 2:** Open Command Prompt and cross-verify the installation of python by typing:

To check the version : **python --version**

To check the path : **pip --version**

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.22000.856]
(c) Microsoft Corporation. All rights reserved.

C:\windows\system32>python --version
Python 3.11.0

C:\windows\system32>pip --version
pip 22.3 from C:\Users\SINEKA AS\AppData\Local\Programs\Python\Python311\Lib\site-packages\pip (python 3.11)

C:\windows\system32>py -m pip --version
pip 22.3 from C:\Users\SINEKA AS\AppData\Local\Programs\Python\Python311\Lib\site-packages\pip (python 3.11)

C:\windows\system32>
```

**Step 3:** After python installation, we need to begin with flask installation by typing :

Flask installation : **py -m install flask**

```
C:\WINDOWS\system32>py -m install flask
C:\Program Files\python\python.exe: No module named install

C:\WINDOWS\system32>py -m pip install flask
Collecting flask
  Downloading flask-2.2.2-py3-none-any.whl (101 kB)
    ----- 101.5/101.5 kB 740.4 kB/s eta 0:00:00
Collecting Werkzeug>=2.2.2
  Downloading Werkzeug-2.2.2-py3-none-any.whl (232 kB)
    ----- 232.7/232.7 kB 1.0 MB/s eta 0:00:00
Collecting Jinja2>=3.0
  Downloading Jinja2-3.1.2-py3-none-any.whl (133 kB)
    ----- 133.1/133.1 kB 740.4 kB/s eta 0:00:00
Collecting itsdangerous>=2.0
  Downloading itsdangerous-2.1.2-py3-none-any.whl (15 kB)
Collecting click>=8.0
  Downloading click-8.1.3-py3-none-any.whl (96 kB)
    ----- 96.6/96.6 kB 740.4 kB/s eta 0:00:00
Collecting colorama
  Downloading colorama-0.4.6-py2.py3-none-any.whl (25 kB)
Collecting MarkupSafe>=2.0
  Downloading MarkupSafe-2.1.1.tar.gz (18 kB)
  Preparing metadata (setup.py) ... done
Installing collected packages: MarkupSafe, itsdangerous, colorama, Werkzeug, Jinja2, click, flask
DEPRECATION: MarkupSafe is being installed using the legacy 'setup.py install' method, because it does not have a 'pyproject.toml' and the 'wheel' package is not installed. pip 23.1 will enforce this behaviour change. A possible replacement is to enable the '--use-pep517' option. Discussion can be found at https://github.com/pypa/pip/issues/8559
Running setup.py install for MarkupSafe ... done
Successfully installed Jinja2-3.1.2 MarkupSafe-2.1.1 Werkzeug-2.2.2 click-8.1.3 colorama-0.4.6 flask-2.2.2 itsdangerous-2.1.2

C:\WINDOWS\system32>py -m flask --version
Python 3.11.0
Flask 2.2.2
Werkzeug 2.2.2

C:\WINDOWS\system32>
```

**Step 4:** Now the new version of Python-Flask is successfully installed

```
Administrator: Command Prompt

C:\WINDOWS\system32>py -m install flask
C:\Program Files\python\python.exe: No module named install

C:\WINDOWS\system32>py -m pip install flask
Collecting flask
  Downloading Flask-2.2.2-py3-none-any.whl (101 kB)
    ----- 101.5/101.5 kB 740.4 kB/s eta 0:00:00
Collecting Werkzeug>=2.2.2
  Downloading Werkzeug-2.2.2-py3-none-any.whl (232 kB)
    ----- 232.7/232.7 kB 1.0 MB/s eta 0:00:00
Collecting Jinja2>=3.0
  Downloading Jinja2-3.1.2-py3-none-any.whl (133 kB)
    ----- 133.1/133.1 kB 740.4 kB/s eta 0:00:00
Collecting itsdangerous>=2.0
  Downloading itsdangerous-2.1.2-py3-none-any.whl (15 kB)
Collecting click>=8.0
  Downloading click-8.1.3-py3-none-any.whl (96 kB)
    ----- 96.6/96.6 kB 740.4 kB/s eta 0:00:00
Collecting colorama
  Downloading colorama-0.4.6-py2.py3-none-any.whl (25 kB)
Collecting MarkupSafe>=2.0
  Downloading MarkupSafe-2.1.1.tar.gz (18 kB)
  Preparing metadata (setup.py) ... done
Installing collected packages: MarkupSafe, itsdangerous, colorama, Werkzeug, Jinja2, click, flask
DEPRECATION: MarkupSafe is being installed using the legacy 'setup.py install' method, because it does not have a 'pyproject.toml' and the 'wheel' package is not installed. pip 23.1 will enforce this behaviour change. A possible replacement is to enable the '--use-pep517' option. Discussion can be found at https://github.com/pypa/pip/issues/8559
Running setup.py install for MarkupSafe ... done
Successfully installed Jinja2-3.1.2 MarkupSafe-2.1.1 Werkzeug-2.2.2 click-8.1.3 colorama-0.4.6 flask-2.2.2 itsdangerous-2.1.2

C:\WINDOWS\system32>py -m flask --version
Python 3.11.0
Flask 2.2.2
Werkzeug 2.2.2

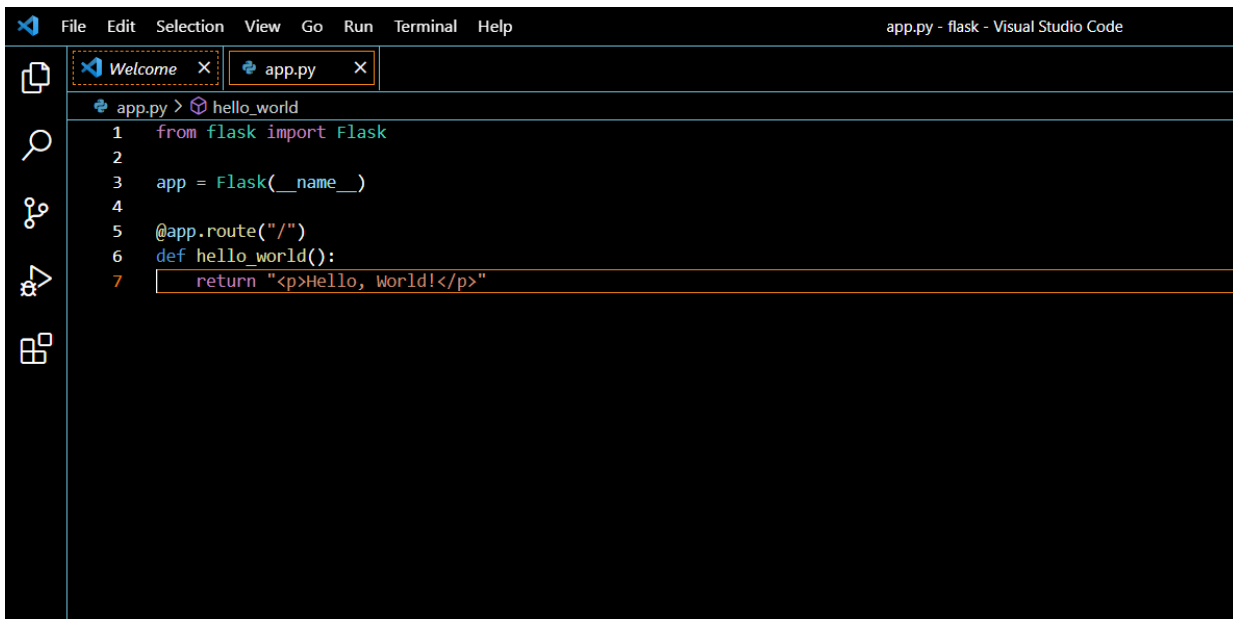
C:\WINDOWS\system32>
```

```
IDLE Shell 3.11.0
File Edit Shell Debug Options Window Help
Python 3.11.0 (tags, 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'
>>>
```

**Step 5:** Now to run a simple project open VS Code and type the following:

```
from flask import Flask
app = Flask(__name__)
@app.route("/")
def hello_world():
    return "<p>Hello, World!</p>"
```

And save the file as “app.py” copy its path and run it in the command prompt along with syntax **flask run**

A screenshot of the Visual Studio Code editor interface. The top menu bar includes File, Edit, Selection, View, Go, Run, Terminal, and Help. The title bar shows 'app.py - flask - Visual Studio Code'. The editor has two tabs: 'Welcome' and 'app.py'. The 'app.py' tab is active, showing the following Python code:

```
1 from flask import Flask
2
3 app = Flask(__name__)
4
5 @app.route("/")
6 def hello_world():
7     return "<p>Hello, World!</p>"
```

The code is syntax-highlighted, with keywords in blue, strings in red, and function names in green. The left sidebar contains icons for Explorer, Search, Source Control, Run and Debug, and Extensions.