

# RAD

**Rapid Application  
Development (RAD)**



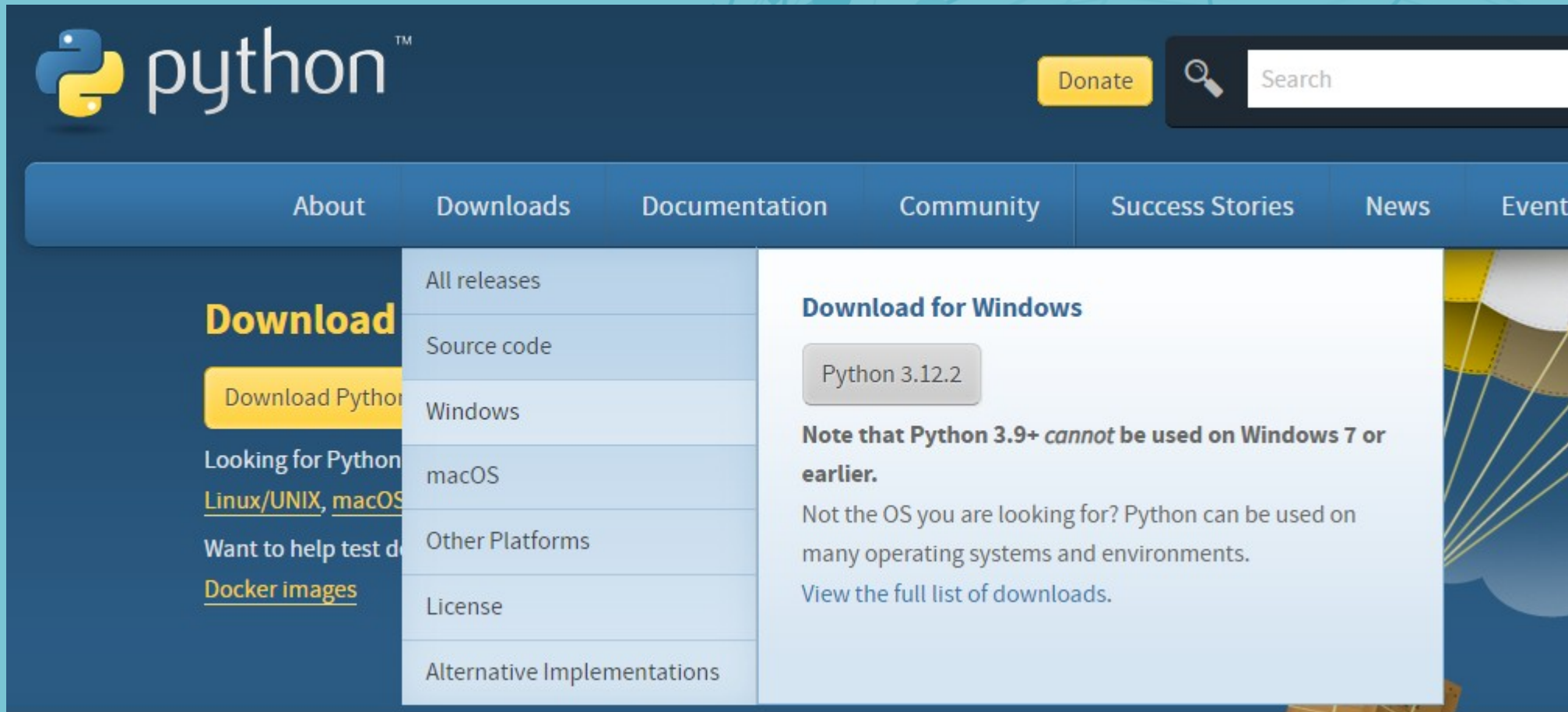
# Preparando o ambiente de desenvolvimento em Python

Para preparar o ambiente será necessário:

0. Conexão com Internet para fazer download dos elementos necessários
1. Python
2. Bibliotecas do Python
3. Visual Studio Code (VSCode)
4. Extensões do VSCode (Python by Microsoft e Jupiter by Microsoft)

# Preparando o ambiente de desenvolvimento em Python

## Faça o download no



The screenshot shows the Python.org website with a dark blue header. The Python logo is on the left, and a 'Donate' button and a search bar are on the right. A navigation bar below the header contains links for 'About', 'Downloads', 'Documentation', 'Community', 'Success Stories', 'News', and 'Events'. The 'Downloads' menu is open, displaying a list of options: 'All releases', 'Source code', 'Windows', 'macOS', 'Other Platforms', 'License', and 'Alternative Implementations'. On the left side of the 'Downloads' menu, there is a 'Download' section with a 'Download Python' button and links for 'Looking for Python on Linux/UNIX, macOS' and 'Want to help test Docker images'. The 'Windows' option is selected, leading to a 'Download for Windows' section. This section features a 'Python 3.12.2' button, a note stating 'Note that Python 3.9+ cannot be used on Windows 7 or earlier.', and text indicating that Python can be used on many operating systems and environments, with a link to 'View the full list of downloads.'

python™

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**Download for Windows**

Python 3.12.2

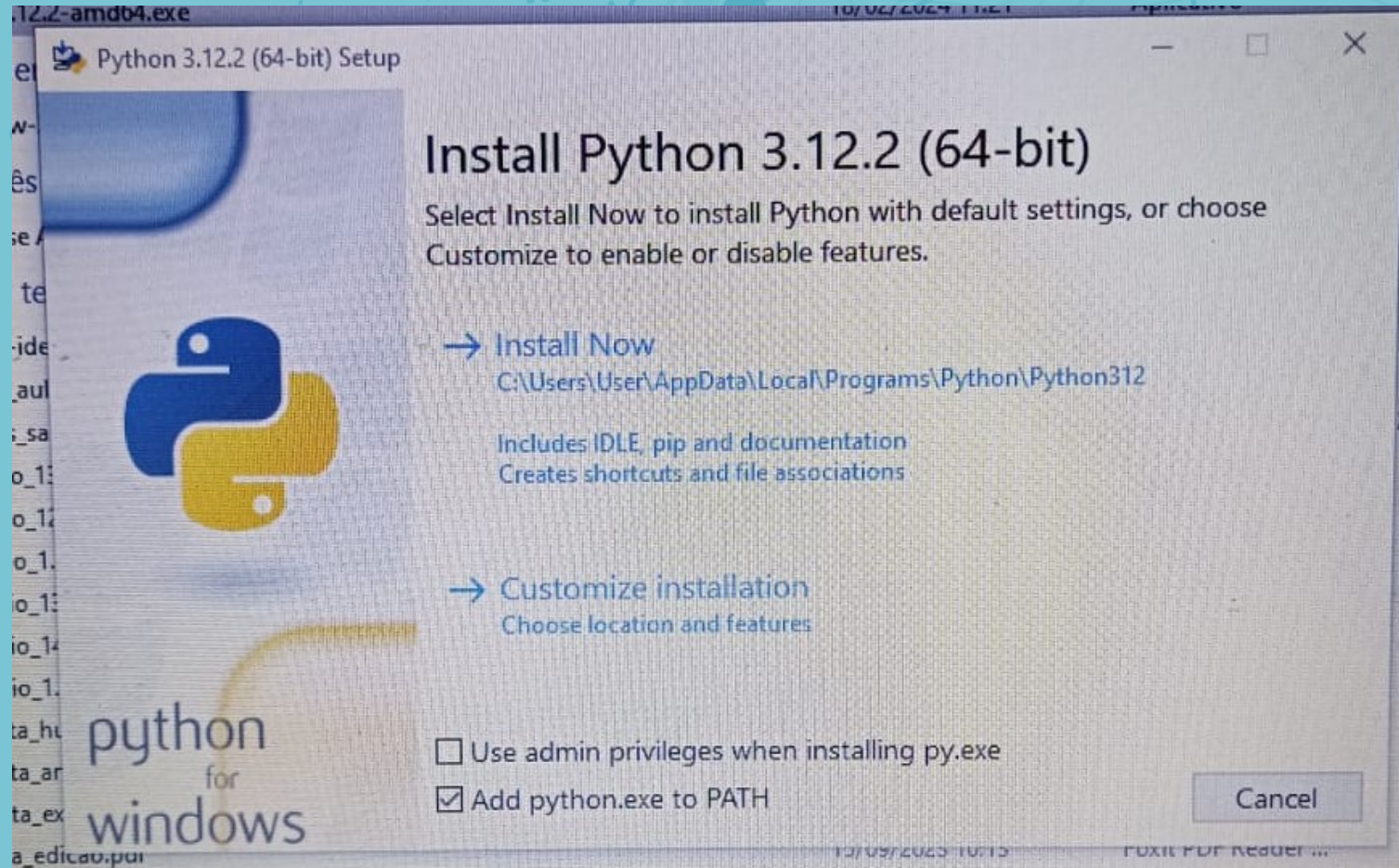
**Note that Python 3.9+ cannot be used on Windows 7 or earlier.**

Not the OS you are looking for? Python can be used on many operating systems and environments.  
[View the full list of downloads.](#)



# Preparando o ambiente de desenvolvimento em Python

**Clique no arquivo do instalador para executar**  
**Selecione o checkbox para adicionar o caminho no sistema**  
**Então clique em instalar agora**



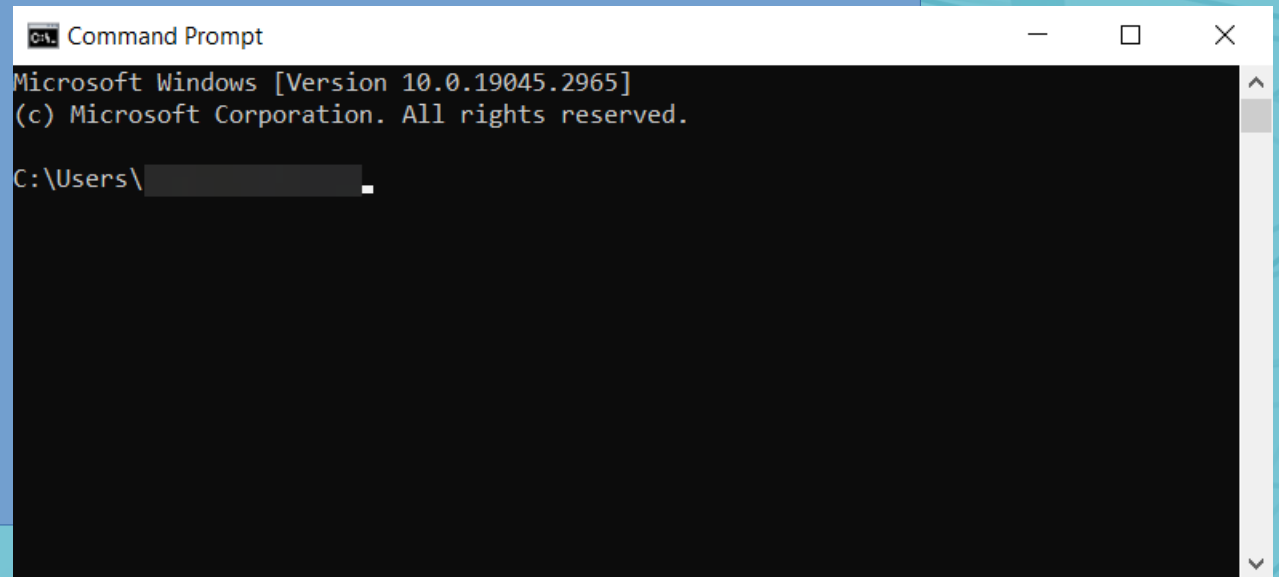
# Preparando o ambiente de desenvolvimento em Python

Após concluir a instalação do Python, abra um prompt de comando

Pressione (botão Windows+R), digite CMD e OK

Nesse prompt, digite os seguintes comandos para instalação das bibliotecas em python

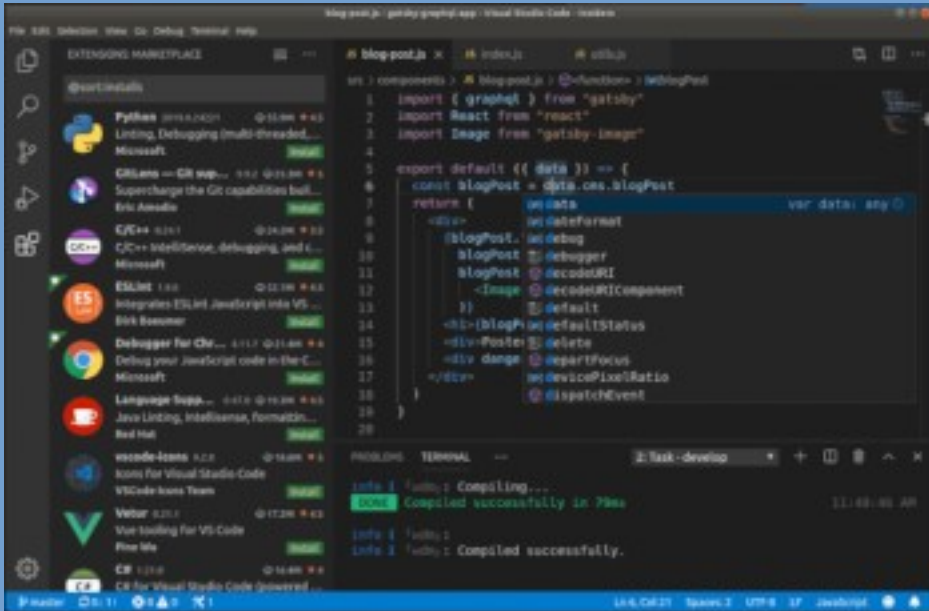
```
pip install flask
pip install flask-sqlalchemy
pip install flask-login
pip install flask-wtf
pip install bootstrap-flask
pip install psycopg2-binary
pip install flask-mail
pip install flask-jwt-extended
pip install cryptography
pip install flask-restful
pip install numpy
pip install pandas
pip install scikit-learn
pip install notebook
pip install matplotlib
```

A screenshot of a Windows Command Prompt window. The title bar reads "Command Prompt". The window content shows the following text: "Microsoft Windows [Version 10.0.19045.2965]", "(c) Microsoft Corporation. All rights reserved.", and "C:\Users\[redacted]". The cursor is positioned at the end of the path, ready for input.

```
Command Prompt
Microsoft Windows [Version 10.0.19045.2965]
(c) Microsoft Corporation. All rights reserved.
C:\Users\[redacted]
```

# Preparando o ambiente de desenvolvimento em Python

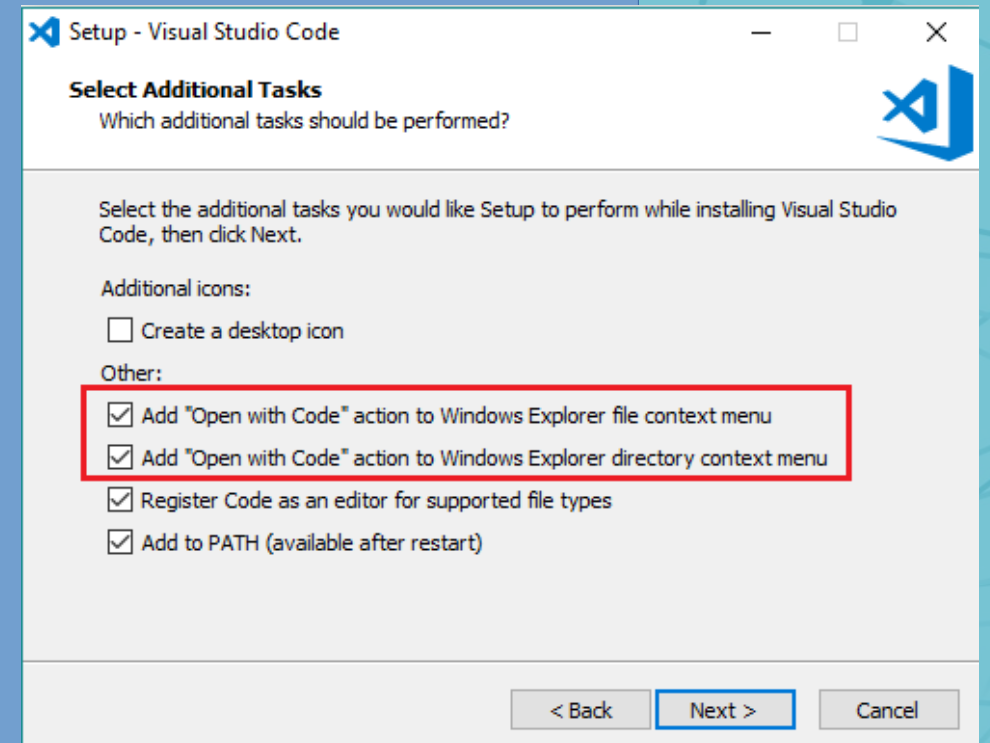
Faça o download do Visual Studio Code em <https://code.visualstudio.com>



Não esqueça de adicionar os caminhos (path) e atalhos convenientes durante a instalação

Reinicie o computador após concluir a instalação!

Caso tenha alguma dúvida sobre a instalação, consulte os materiais complementares disponíveis no repositório da disciplina

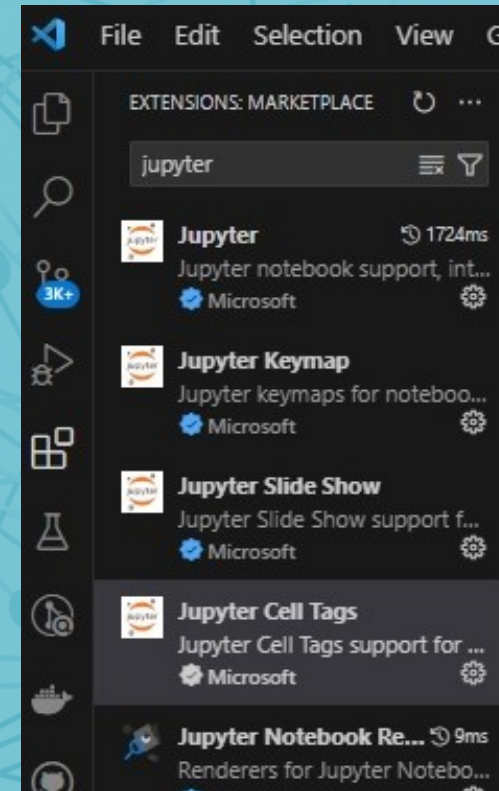
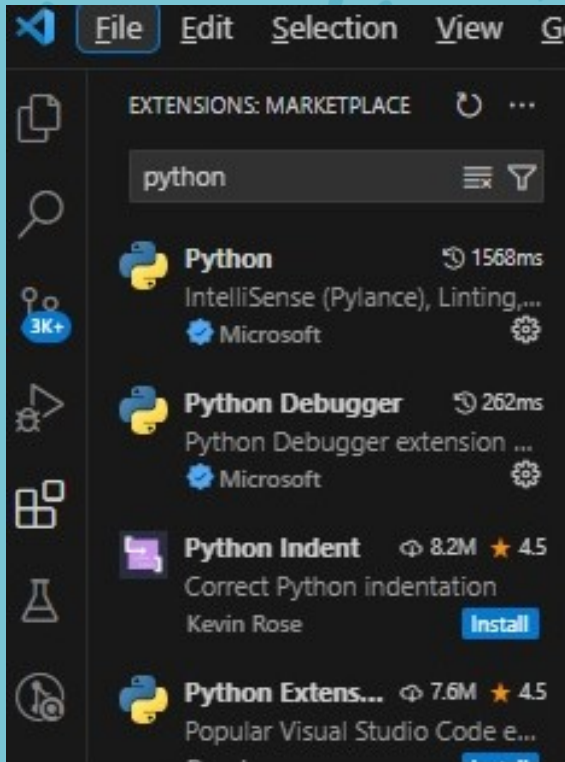




# Preparando o ambiente de desenvolvimento em Python

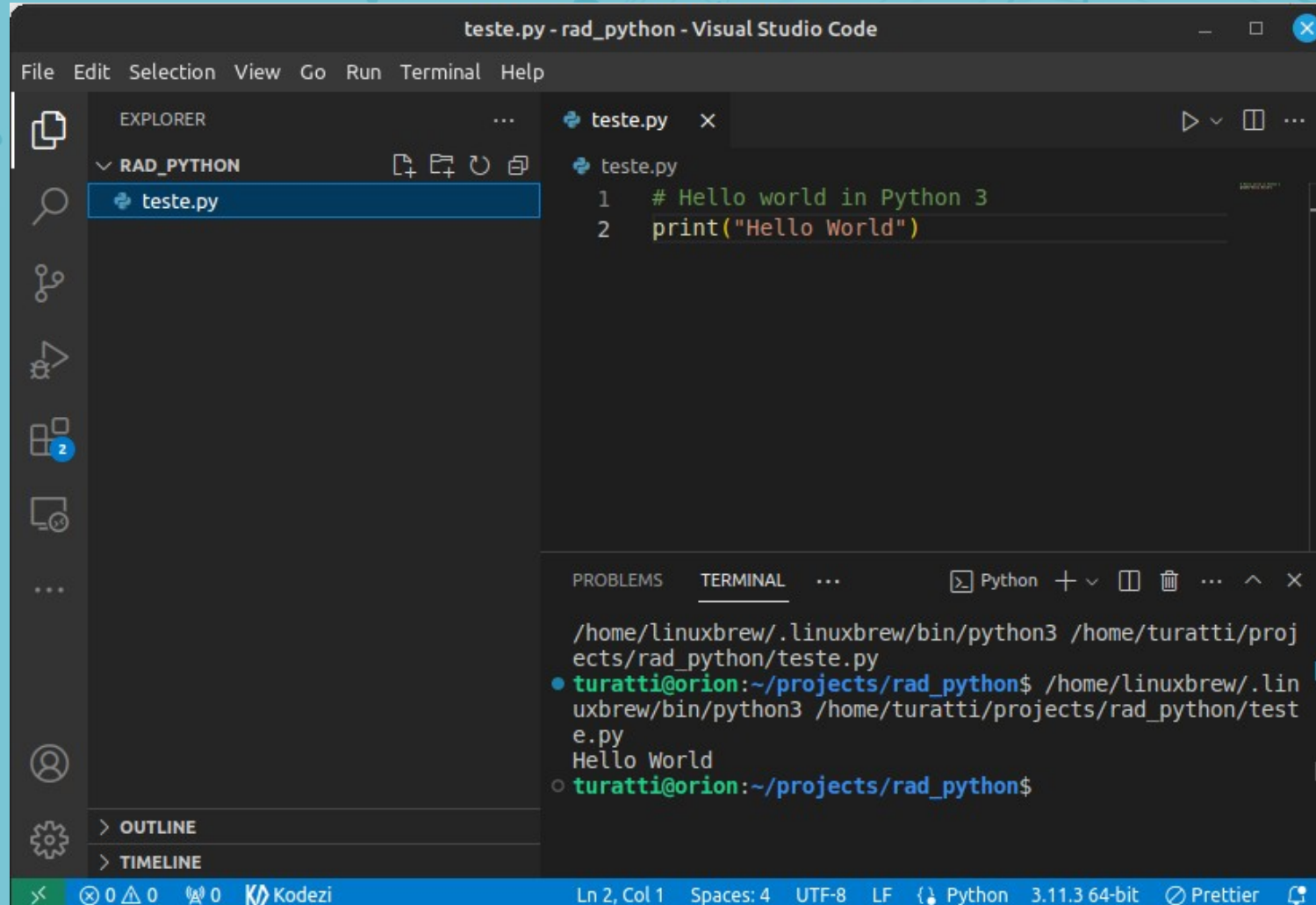
Após reiniciar o computador, instale as extensões no VSCode:

- Python e
  - Jupyter
- (ambas da Microsoft)



# Preparando o ambiente de desenvolvimento em Python

Faça um teste para verificar se tudo está funcionando



The screenshot displays the Visual Studio Code interface with a file named `teste.py` open. The file contains the following code:

```
1 # Hello world in Python 3
2 print("Hello World")
```

The terminal at the bottom shows the command to run the file and the output:

```
/home/linuxbrew/.linuxbrew/bin/python3 /home/turatti/projects/rad_python/teste.py
turatti@orion:~/projects/rad_python$ /home/linuxbrew/.linuxbrew/bin/python3 /home/turatti/projects/rad_python/teste.py
Hello World
turatti@orion:~/projects/rad_python$
```

The status bar at the bottom indicates the file is using Python 3.11.3 64-bit and the Prettier formatter.