



```
daniel@DESKTOP-NKV6N08: ~/Development/PosUtfprInteligenciaArtificial/CEIA-POSIA02-Introducao_a_Inteligencia_Artificai/Aula004-Frameworks_e_B...  
Using cached pillow-11.0.0-cp312-cp312-manylinux_2_28_x86_64.whl (4.4 MB)  
Using cached pyparsing-3.2.0-py3-none-any.whl (106 kB)  
Using cached python_dateutil-2.9.0.post0-py2.py3-none-any.whl (229 kB)  
Downloading six-1.17.0-py2.py3-none-any.whl (11 kB)  
Installing collected packages: six, pyparsing, pillow, packaging, numpy, kiwisolver, fonttools, cyclier, python-dateutil, contourpy, matplotlib  
Successfully installed contourpy-1.3.1 cyclier-0.12.1 fonttools-4.55.2 kiwisolver-1.4.7 matplotlib-3.9.3 numpy-2.2.0 packaging-24.2 pillow-11.0.0 pyparsing-3.2.0 python-dateutil-2.9.0.post0 six-1.17.0  
[notice] A new release of pip is available: 23.2.1 -> 24.3.1  
[notice] To update, run: pip install --upgrade pip  
(.venv) daniel@DESKTOP-NKV6N08:~/Development/PosUtfprInteligenciaArtificial/CEIA-POSIA02-Introducao_a_Inteligencia_Artificai/Aula004-Frameworks_e_Bibliotecas_Part01$ ls  
requirements.txt  
(.venv) daniel@DESKTOP-NKV6N08:~/Development/PosUtfprInteligenciaArtificial/CEIA-POSIA02-Introducao_a_Inteligencia_Artificai/Aula004-Frameworks_e_Bibliotecas_Part01$ ls  
main.py requirements.txt  
(.venv) daniel@DESKTOP-NKV6N08:~/Development/PosUtfprInteligenciaArtificial/CEIA-POSIA02-Introducao_a_Inteligencia_Artificai/Aula004-Frameworks_e_Bibliotecas_Part01$ python main.py  
(.venv) daniel@DESKTOP-NKV6N08:~/Development/PosUtfprInteligenciaArtificial/CEIA-POSIA02-Introducao_a_Inteligencia_Artificai/Aula004-Frameworks_e_Bibliotecas_Part01$ python histograma.py  
(.venv) daniel@DESKTOP-NKV6N08:~/Development/PosUtfprInteligenciaArtificial/CEIA-POSIA02-Introducao_a_Inteligencia_Artificai/Aula004-Frameworks_e_Bibliotecas_Part01$ python histograma.py  
(.venv) daniel@DESKTOP-NKV6N08:~/Development/PosUtfprInteligenciaArtificial/CEIA-POSIA02-Introducao_a_Inteligencia_Artificai/Aula004-Frameworks_e_Bibliotecas_Part01$ ls  
grafico.py histograma.py lab1-IA.py requirements.txt  
(.venv) daniel@DESKTOP-NKV6N08:~/Development/PosUtfprInteligenciaArtificial/CEIA-POSIA02-Introducao_a_Inteligencia_Artificai/Aula004-Frameworks_e_Bibliotecas_Part01$ python lab1-IA.py  
[0] 0: bash* "DESKTOP-NKV6N08" 12:28 10-Dec-24
```