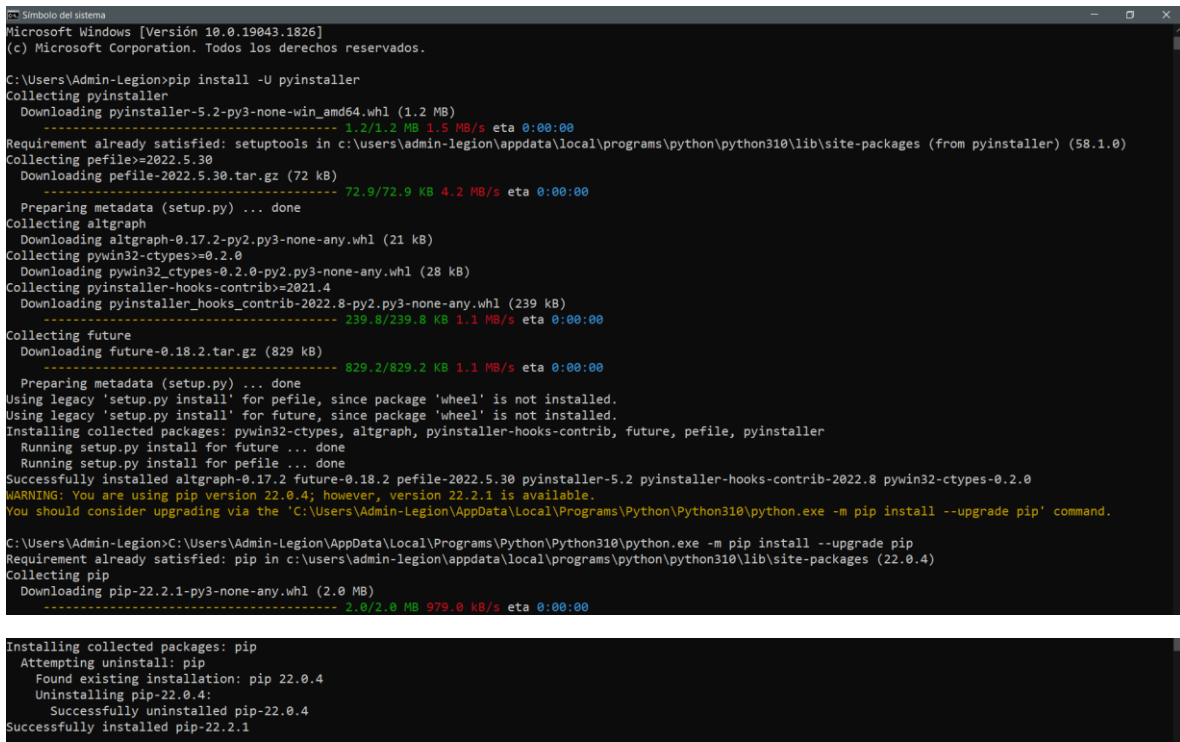


CREACIÓN DE UN .EXE (EJECUTABLE) EN PYTHON

Paso 1:

Instalar PyInstaller, mediante el comando:

```
pip install -U pyinstaller
```



```
Microsoft Windows [Versión 10.0.19043.1826]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\Admin-Legion>pip install -U pyinstaller
Collecting pyinstaller
  Downloading pyinstaller-5.2-py3-none-win_amd64.whl (1.2 MB)
    ----- 1.2/1.2 MB 1.5 MB/s eta 0:00:00
Requirement already satisfied: setuptools in c:\users\admin-legion\appdata\local\programs\python\python310\lib\site-packages (from pyinstaller) (58.1.0)
Collecting pefile>=2022.5.30
  Downloading pefile-2022.5.30.tar.gz (72 kB)
    ----- 72.9/72.9 KB 4.2 MB/s eta 0:00:00
  Preparing metadata (setup.py) ... done
Collecting altgraph
  Downloading altgraph-0.17.2-py2.py3-none-any.whl (21 kB)
Collecting pywin32-ctypes>=0.2.0
  Downloading pywin32-ctypes-0.2.0-py2.py3-none-any.whl (28 kB)
Collecting pyinstaller-hooks-contrib>=2021.4
  Downloading pyinstaller_hooks_contrib-2022.8-py2.py3-none-any.whl (239 kB)
    ----- 239.8/239.8 KB 1.1 MB/s eta 0:00:00
Collecting future
  Downloading future-0.18.2.tar.gz (829 kB)
    ----- 829.2/829.2 KB 1.1 MB/s eta 0:00:00
  Preparing metadata (setup.py) ... done
Using legacy 'setup.py install' for pefile, since package 'wheel' is not installed.
Using legacy 'setup.py install' for future, since package 'wheel' is not installed.
Installing collected packages: pywin32-ctypes, altgraph, pyinstaller-hooks-contrib, future, pefile, pyinstaller
  Running setup.py install for future ... done
  Running setup.py install for pefile ... done
Successfully installed altgraph-0.17.2 future-0.18.2 pefile-2022.5.30 pyinstaller-5.2 pyinstaller-hooks-contrib-2022.8 pywin32-ctypes-0.2.0
WARNING: You are using pip version 22.0.4; however, version 22.2.1 is available.
You should consider upgrading via the 'C:\Users\Admin-Legion\AppData\Local\Programs\Python\Python310\python.exe -m pip install --upgrade pip' command.

C:\Users\Admin-Legion>C:\Users\Admin-Legion\AppData\Local\Programs\Python\Python310\python.exe -m pip install --upgrade pip
Requirement already satisfied: pip in c:\users\admin-legion\appdata\local\programs\python\python310\lib\site-packages (22.0.4)
Collecting pip
  Downloading pip-22.2.1-py3-none-any.whl (2.0 MB)
    ----- 2.0/2.0 MB 979.0 kB/s eta 0:00:00

Installing collected packages: pip
  Attempting uninstall: pip
    Found existing installation: pip 22.0.4
    Uninstalling pip-22.0.4:
      Successfully uninstalled pip-22.0.4
  Successfully installed pip-22.2.1
```

Paso 2:

Ubicarnos en la carpeta donde se encuentre nuestro proyecto mediante la terminal y ejecutar el siguiente comando:

```
pyinstaller your_program.py
```

```

E:\Admin-Legion\Documents\OneDrive\Escritorio\tkinter-calculadora-python>pyinstaller calculadora.py
417 INFO: PyInstaller: 5.2
418 INFO: Python: 3.10.5
448 INFO: Platform: Windows-10-10.0.19043-SP0
452 INFO: wrote E:\Admin-Legion\Documents\OneDrive\Escritorio\tkinter-calculadora-python\calculadora.spec
464 INFO: UPX is not available.
471 INFO: Extending PYTHONPATH with paths
['E:\Admin-Legion\Documents\OneDrive\Escritorio\tkinter-calculadora-python']
946 INFO: checking Analysis
947 INFO: Building Analysis because Analysis-00.toc is non existent
948 INFO: Initializing module dependency graph...
962 INFO: Caching module graph hooks...
1003 INFO: Analyzing base_library.zip ...
11974 INFO: Processing pre-find module path hook distutils from 'C:\\Users\\Admin-Legion\\AppData\\Local\\Programs\\Python\\Python310\\lib\\site-packages\\PyI
e_path\\hook-distutils.py'.
11979 INFO: distutils: retargeting to non-venv dir 'C:\\Users\\Admin-Legion\\AppData\\Local\\Programs\\Python\\Python310\\lib'
17544 INFO: Caching module dependency graph...
17942 INFO: running Analysis Analysis-00.toc
17967 INFO: Adding Microsoft.Windows.Common-Controls to dependent assemblies of final executable
required by C:\\Users\\Admin-Legion\\AppData\\Local\\Programs\\Python\\Python310\\python.exe
18277 INFO: Analyzing E:\Admin-Legion\Documents\OneDrive\Escritorio\tkinter-calculadora-python\calculadora.py
18309 INFO: Processing module hooks...
18310 INFO: Loading module hook 'hook-difflib.py' from 'C:\\Users\\Admin-Legion\\AppData\\Local\\Programs\\Python\\Python310\\lib\\site-packages\\PyInstaller\\
18315 INFO: Loading module hook 'hook-distutils.py' from 'C:\\Users\\Admin-Legion\\AppData\\Local\\Programs\\Python\\Python310\\lib\\site-packages\\PyInstalle
18322 INFO: Loading module hook 'hook-distutils.util.py' from 'C:\\Users\\Admin-Legion\\AppData\\Local\\Programs\\Python\\Python310\\lib\\site-packages\\PyIns
18331 INFO: Loading module hook 'hook-encodings.py' from 'C:\\Users\\Admin-Legion\\AppData\\Local\\Programs\\Python\\Python310\\lib\\site-packages\\PyInstalle
18973 INFO: Loading module hook 'hook-heapq.py' from 'C:\\Users\\Admin-Legion\\AppData\\Local\\Programs\\Python\\Python310\\lib\\site-packages\\PyInstaller\\h
18976 INFO: Loading module hook 'hook-lib2to3.py' from 'C:\\Users\\Admin-Legion\\AppData\\Local\\Programs\\Python\\Python310\\lib\\site-packages\\PyInstaller\\
19163 INFO: Loading module hook 'hook-multiprocessing.util.py' from 'C:\\Users\\Admin-Legion\\AppData\\Local\\Programs\\Python\\Python310\\lib\\site-packages\\
19169 INFO: Loading module hook 'hook-pickle.py' from 'C:\\Users\\Admin-Legion\\AppData\\Local\\Programs\\Python\\Python310\\lib\\site-packages\\PyInstaller\\
19176 INFO: Loading module hook 'hook-platform.py' from 'C:\\Users\\Admin-Legion\\AppData\\Local\\Programs\\Python\\Python310\\lib\\site-packages\\PyInstaller\\
19180 INFO: Loading module hook 'hook-sysconfig.py' from 'C:\\Users\\Admin-Legion\\AppData\\Local\\Programs\\Python\\Python310\\lib\\site-packages\\PyInstaller\\
19183 INFO: Loading module hook 'hook-xml.etree.cElementTree.py' from 'C:\\Users\\Admin-Legion\\AppData\\Local\\Programs\\Python\\Python310\\lib\\site-package
19188 INFO: Loading module hook 'hook-xml.py' from 'C:\\Users\\Admin-Legion\\AppData\\Local\\Programs\\Python\\Python310\\lib\\site-packages\\PyInstaller\\hoo
19446 INFO: Loading module hook 'hook_tkinter.py' from 'C:\\Users\\Admin-Legion\\AppData\\Local\\Programs\\Python\\Python310\\lib\\site-packages\\PyInstaller
19745 INFO: checking Tree
19746 INFO: Building Tree because Tree-00.toc is non existent

```

```

22929 INFO: Building PVZ (ZlibArchive) E:\Admin-Legion\Documents\OneDrive\Escritorio\tkinter-calculadora-python\build\calculadora\PYZ-00.pyz completed success
22954 INFO: checking PKG
22954 INFO: Building PKG because PKG-00.toc is non existent
22957 INFO: Building PKG (CArchive) calculadora.pkg
22996 INFO: Building PKG (CArchive) calculadora.pkg completed successfully.
23013 INFO: Bootloader C:\Users\Admin-Legion\AppData\Local\Programs\Python\Python310\lib\site-packages\PyInstaller\bootloader\Windows-64bit\run.exe
23016 INFO: checking EXE
23022 INFO: Building EXE because EXE-00.toc is non existent
23024 INFO: Building EXE from EXE-00.toc
23026 INFO: Copying bootloader EXE to E:\Admin-Legion\Documents\OneDrive\Escritorio\tkinter-calculadora-python\build\calculadora\calculadora.exe.notanexecutab
23045 INFO: Copying icon to EXE
23045 INFO: Copying icons from ['C:\\Users\\Admin-Legion\\AppData\\Local\\Programs\\Python\\Python310\\lib\\site-packages\\PyInstaller\\bootloader\\images\\ic
23056 INFO: Writing RT_GROUP_ICON 0 resource with 104 bytes
23056 INFO: Writing RT_ICON 1 resource with 3752 bytes
23065 INFO: Writing RT_ICON 2 resource with 2216 bytes
23072 INFO: Writing RT_ICON 3 resource with 1384 bytes
23081 INFO: Writing RT_ICON 4 resource with 37019 bytes
23088 INFO: Writing RT_ICON 5 resource with 9640 bytes
23093 INFO: Writing RT_ICON 6 resource with 4264 bytes
23104 INFO: Writing RT_ICON 7 resource with 1128 bytes
23121 INFO: Copying 0 resources to EXE
23121 INFO: Embedding manifest in EXE
23136 INFO: Updating manifest in E:\Admin-Legion\Documents\OneDrive\Escritorio\tkinter-calculadora-python\build\calculadora\calculadora.exe.notanexecutable
23143 INFO: Updating resource type 24 name 1 language 0
23154 INFO: Appending PKG archive to EXE
23162 INFO: Fixing EXE headers
23479 INFO: Building EXE from EXE-00.toc completed successfully.
23496 INFO: checking COLLECT
23496 INFO: Building COLLECT because COLLECT-00.toc is non existent
23510 INFO: Building COLLECT COLLECT-00.toc
33709 INFO: Building COLLECT COLLECT-00.toc completed successfully.

E:\Admin-Legion\Documents\OneDrive\Escritorio\tkinter-calculadora-python>

```

Paso 3:

Dentro de la carpeta donde tenemos nuestro proyecto veremos algo como esto:

Personal > Escritorio > tkinter-calculadora-python					
o Print					
Nombre	Estado	Fecha de modificación	Tipo	Tamaño	
build	✓	28/07/2022 06:53 p. m.	Carpeta de archivos		
dist	✓	28/07/2022 06:53 p. m.	Carpeta de archivos		
app	✓	26/07/2022 01:21 p. m.	Archivo de origen ...	8 KB	
calculadora	✓	28/07/2022 06:31 p. m.	Archivo de origen ...	7 KB	
calculadora.spec	✓	28/07/2022 06:53 p. m.	Archivo SPEC	1 KB	
eval	✓	25/07/2022 09:07 p. m.	Archivo de origen ...	1 KB	

Dentro de la carpeta “dist”, se encontrará el ejecutable.

Personal > Escritorio > tkinter-calculadora-python > dist					
o Print					
Nombre	Estado	Fecha de modificación	Tipo	Tamaño	
calculadora	✓	28/07/2022 06:53 p. m.	Carpeta de archivos		

Personal > Escritorio > tkinter-calculadora-python > dist > calculadora					
o Print					
Nombre	Estado	Fecha de modificación	Tipo	Tamaño	
tcl	✓	28/07/2022 06:53 p. m.	Carpeta de archivos		
tcl8	✓	28/07/2022 06:53 p. m.	Carpeta de archivos		
tk	✓	28/07/2022 06:53 p. m.	Carpeta de archivos		
_bz2	✓	28/07/2022 06:53 p. m.	Python Extension ...	79 KB	
_decimal	✓	28/07/2022 06:53 p. m.	Python Extension ...	243 KB	
_hashlib	✓	28/07/2022 06:53 p. m.	Python Extension ...	61 KB	
_lzma	✓	28/07/2022 06:53 p. m.	Python Extension ...	152 KB	
_socket	✓	28/07/2022 06:53 p. m.	Python Extension ...	75 KB	
_tkinter	✓	28/07/2022 06:53 p. m.	Python Extension ...	62 KB	
base_library	✓	28/07/2022 06:53 p. m.	Carpeta compri...	813 KB	
calculadora	✓	28/07/2022 06:53 p. m.	Aplicación	1,189 KB	
libcrypto-1_1.dll	✓	28/07/2022 06:53 p. m.	Extensión de la ap...	3,359 KB	
python310.dll	✓	28/07/2022 06:53 p. m.	Extensión de la ap...	4,346 KB	
select	✓	28/07/2022 06:53 p. m.	Python Extension ...	27 KB	
tcl86t.dll	✓	28/07/2022 06:53 p. m.	Extensión de la ap...	1,823 KB	
tk86t.dll	✓	28/07/2022 06:53 p. m.	Extensión de la ap...	1,506 KB	
unicodedata	✓	28/07/2022 06:53 p. m.	Python Extension ...	1,094 KB	
VCRUNTIME140.dll	✓	28/07/2022 06:53 p. m.	Extensión de la ap...	96 KB	

Paso 4:

Ejecutamos y probamos.

