

## How to convert python package into an executable file(.exe):

1. Create main folder and create a folder named as GUI inside the main folder.
2. Place all your python program files in the GUI folder.

Example: rasterMiner\RasterMiner\GUI

Name	Date modified	Type	S
algorithms	21-04-2022 18:09	File folder	
build	21-04-2022 17:42	File folder	
dataProcessing	22-04-2022 15:03	File folder	
dist	22-04-2022 15:27	File folder	
__init__	21-04-2022 17:05	JetBrains PyCharm ...	
affinityPropagation	21-04-2022 17:05	JetBrains PyCharm ...	
birch	21-04-2022 17:05	JetBrains PyCharm ...	
dbscan	21-04-2022 17:05	JetBrains PyCharm ...	
elbowKmeans	21-04-2022 17:05	JetBrains PyCharm ...	
elbowKmeansPI	21-04-2022 17:05	JetBrains PyCharm ...	
fuzzyKMeans	21-04-2022 17:05	JetBrains PyCharm ...	
GUImain	21-04-2022 17:05	JetBrains PyCharm ...	
kmeans	21-04-2022 17:05	JetBrains PyCharm ...	
meanShift	21-04-2022 17:05	JetBrains PyCharm ...	
optics	21-04-2022 17:05	JetBrains PyCharm ...	
periodicFrequentPattern	21-04-2022 17:05	JetBrains PyCharm ...	
rasterMiner	21-04-2022 17:05	JetBrains PyCharm ...	
rasterminer.spec	22-04-2022 15:20	SPEC File	
spectralClustering	21-04-2022 17:05	JetBrains PyCharm ...	

3. Open GUI folder path in the terminal and install pyinstaller in the terminal using the following command: **pip install pyinstaller**

```
PS C:\Users\Raashika\PycharmProjects\rasterMiner\RasterMiner\GUI> pip install pyinstaller
Collecting pyinstaller
  Using cached pyinstaller-5.0-py3-none-win_amd64.whl (2.0 MB)
Requirement already satisfied: setuptools in c:\users\raashika\pycharmprojects\rasterminer\venv\lib\site-packages (from pyinstaller) (57.0.0)
Requirement already satisfied: pefile>=2017.8.1 in c:\users\raashika\pycharmprojects\rasterminer\venv\lib\site-packages (from pyinstaller) (2021.9.3)
Requirement already satisfied: altgraph in c:\users\raashika\pycharmprojects\rasterminer\venv\lib\site-packages (from pyinstaller) (0.17.2)
Requirement already satisfied: pywin32-ctypes>=0.2.0 in c:\users\raashika\pycharmprojects\rasterminer\venv\lib\site-packages (from pyinstaller) (0.2.0)
Requirement already satisfied: pyinstaller-hooks-contrib>=2020.6 in c:\users\raashika\pycharmprojects\rasterminer\venv\lib\site-packages (from pyinstaller) (2022.4)
Requirement already satisfied: future in c:\users\raashika\pycharmprojects\rasterminer\venv\lib\site-packages (from pefile>=2017.8.1->pyinstaller) (0.18.2)
Installing collected packages: pyinstaller
Successfully installed pyinstaller-5.0
```

This library is used to convert python package into .exe files

4. Execute the following command to create .exe file

Command: `pyinstaller pythonfileName --onefile`


To execute it effectively you can also use the below command

Command: `pyinstaller pythonfileName --noconsole --onefile`

Example: `pyinstaller rasterminer.py --noconsole --onefile`

```
PS C:\Users\Raashika\PycharmProjects\rasterMiner\RasterMiner\GUI> pyinstaller rasterminer.py --noconsole --onefile
697 INFO: PyInstaller: 5.0
698 INFO: Python: 3.9.12
710 INFO: Platform: Windows-10-10.0.19043-SP0
712 INFO: wrote C:\Users\Raashika\PycharmProjects\rasterMiner\RasterMiner\GUI\rasterminer.spec
718 INFO: UPX is not available.
721 INFO: Extending PYTHONPATH with paths
['C:\\Users\\Raashika\\PycharmProjects']
1090 INFO: checking Analysis
1129 INFO: Building because inputs changed
```

After executing this command, a folder named **dist** is created and an executable file is created in the dist folder named as “pythonfileName.exe”

rmProjects > rasterMiner > RasterMiner > GUI > dist				Search dist
Name	Date modified	Type	Size	
 rasterminer	22-04-2022 18:22	Application	67,9!	

Double click on the exe file.