ELECTRICITY COST CALCULATOR

Convert Python Script to .exe File

Table Of Contents

1. Objective

Converting a Python script to a standalone executable (.exe) file allows it to be run on Windows systems without requiring a Python installation.

2. Steps to follow

2.1. Step 1: Install PyInstaller

Open a terminal (Command Prompt, PowerShell, or Anaconda Prompt) and run:

```
pip install pyinstaller
```

2.2. Step 2: Navigate to Your Script's Directory

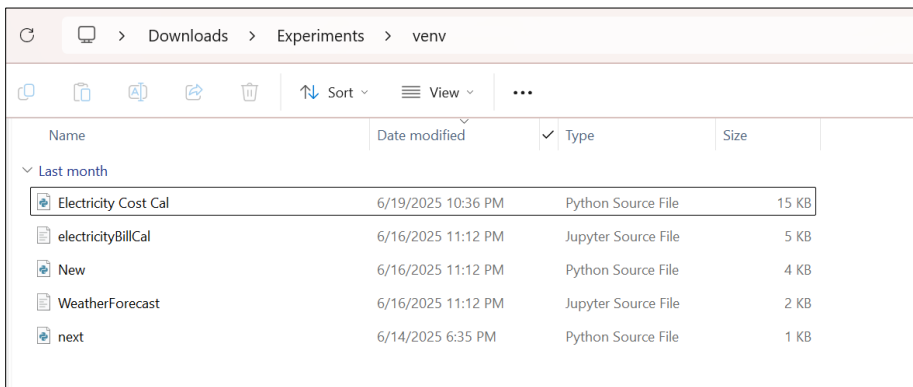Go into the directory where your '.py' file is located. (In this example – Electricity Cost Cal.py)

Figure 01

2.3. Step 3: Open Command Prompt

Right click on the screen and click **'*Open in terminal*'** action from the list. You will get a window shown below.
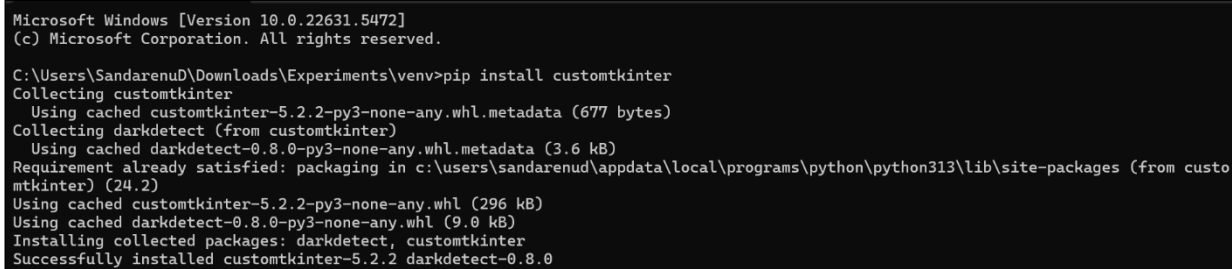
E.g. *C:\Users\UserName\Downloads\Experiments\venv*

Figure 02

2.4. Step 4: Ensure the libraries that used is Installed in python environment.

```
pip install customtkinter
pip install tkinter
```


Figure 03

2.5. Step 5: Run PyInstaller

To create a .exe file:

pyinstaller --onefile –-noconsole your_script.py

```
pyinstaller –-onefile  --noconsole 'Electricity Cost Cal.py'
```

Type the command given above in that command prompt window.

To stop the console window from opening (for GUI apps like Tkinter or customtkinter), use the –noconsole flag.

The --onefile option ensures that PyInstaller creates a single executable file rather than a directory with multiple files. Here the '.py' file name is ***'Electricity Cost Cal.py'***.

After typing the command press the Enter key. It will take some time to finish the process depending on the size of the file and how big your project is. After the processing has been finished, the window will look as below:
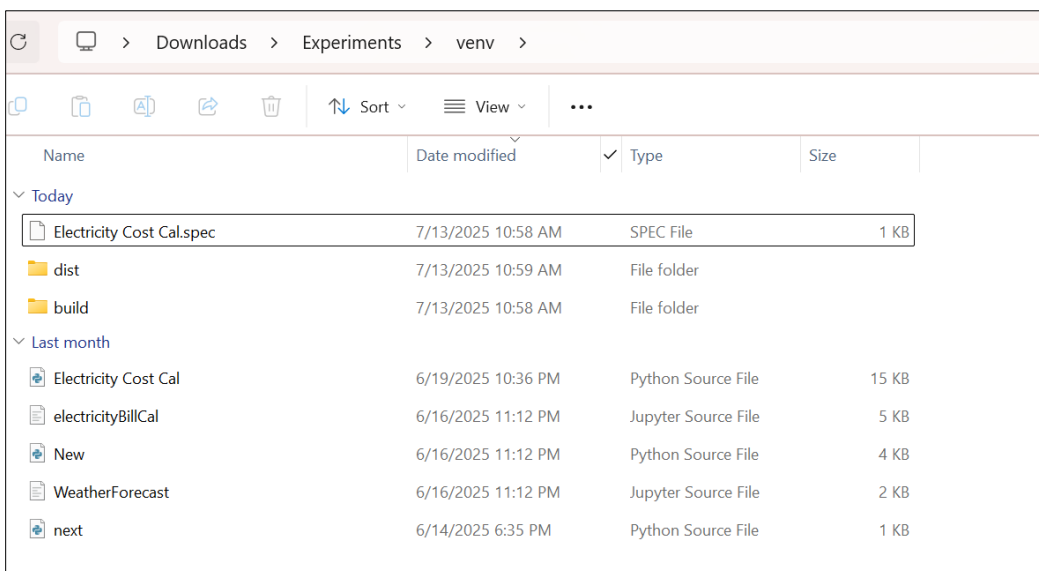
Figure 04

2.6. **Step 6:** Locate the Executable

See the directory it should look like this:

Figure 05

'***build***' folder and '***Electricity Cost Cal.spec***' are of no use. You can delete these if you want, it will not affect your '.exe' file.

2.7.   Step 7: Test the Executable

Open '***dist***' folder above. Here you will get your '.exe' file. (E.g. Electricity Cost Cal.exe)
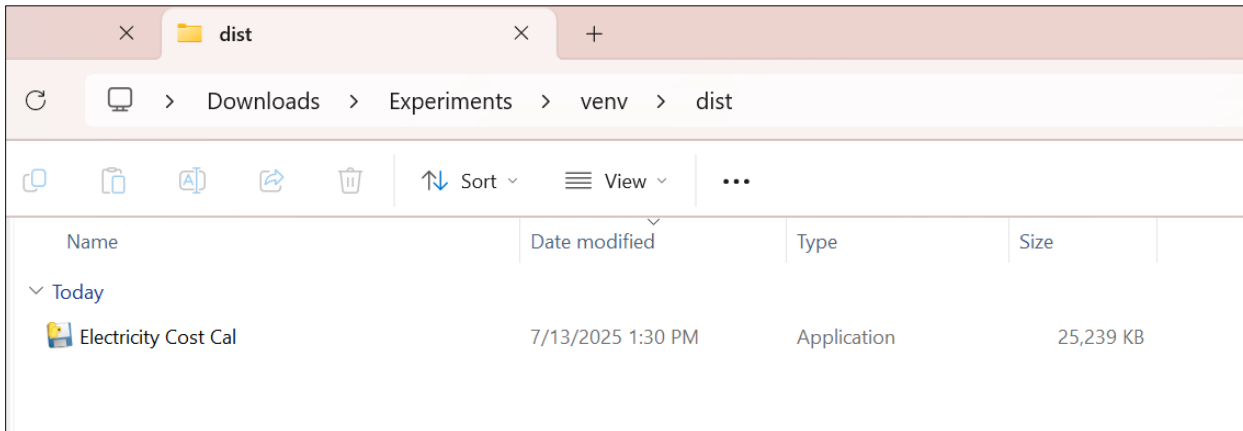

Figure 06

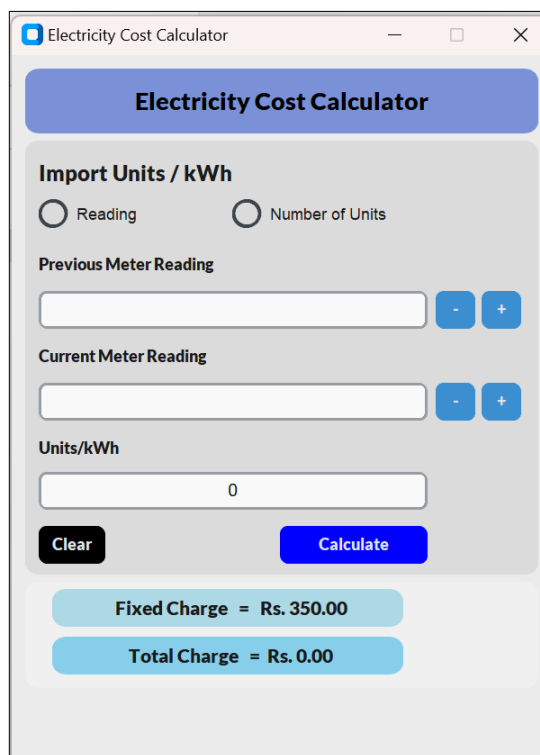Double click on the file and the window will open as below.

Figure 07

You can share this to set up the solution on other computers easily.

3.   Additional PyInstaller Options

PyInstaller provides several options to customize the build process:

- **--onefile:** Bundles the script and all dependencies into a single executable.
- **--noconsole , --windowed:** Suppresses the console window (useful for GUI applications).
- **--icon:** Allows you to specify an icon for the executable.