# How to Create an Executable from a Python Script

Creating an executable (.exe) file from a Python script means turning your script into a standalone application that can run on Windows computers without needing Python installed. Here's a step-by-step guide to do this using a tool called PyInstaller.

### Step 1: Download and Install PyInstaller

- **Download Python:** First, ensure you have Python installed on your computer. You can download it from the official Python website: https://www.python.org/downloads/
- **Install Pyinstaller:** Pyinstaller is a program that converts Python scripts into executables. You can install it by opening your command prompt (search for 'cmd' in the Windows start menu) and typing the following command:
  - 1. pip install pyinstaller
  - 2. This command downloads and installs PyInstaller.

## **Step 2: Prepare Your Python Script**

• Make sure your Python script (the .py file) is ready and tested. It should be the script you want to convert into an executable.

#### Step 3: Convert the Script to an Executable

- Open Command Prompt in Script Directory: Find your Python script file in File Explorer. Hold
   'Shift', right-click on the folder containing your script, and select 'Open PowerShell window here'
   or 'Open command window here'.
- Run Pylnstaller: In the command prompt that opens, type the following command:
  - "pyinstaller --onefile your\_script\_name.py"
  - Replace your\_script\_name.py with the actual name of your Python script. This command tells PyInstaller to create a single executable file from your script.

#### Step 4: Locate the Executable File

- Find the 'dist' Folder: After PyInstaller finishes, it creates a new folder named 'dist' in the same directory as your Python script.
- Executable File: Inside the 'dist' folder, you'll find the .exe file with the same name as your script. This is your standalone application.

#### **Step 5: Run the Executable**

 You can now run your application by double-clicking the .exe file. It will work on any Windows computer, even if Python is not installed.