Setting up of Python and Development tools

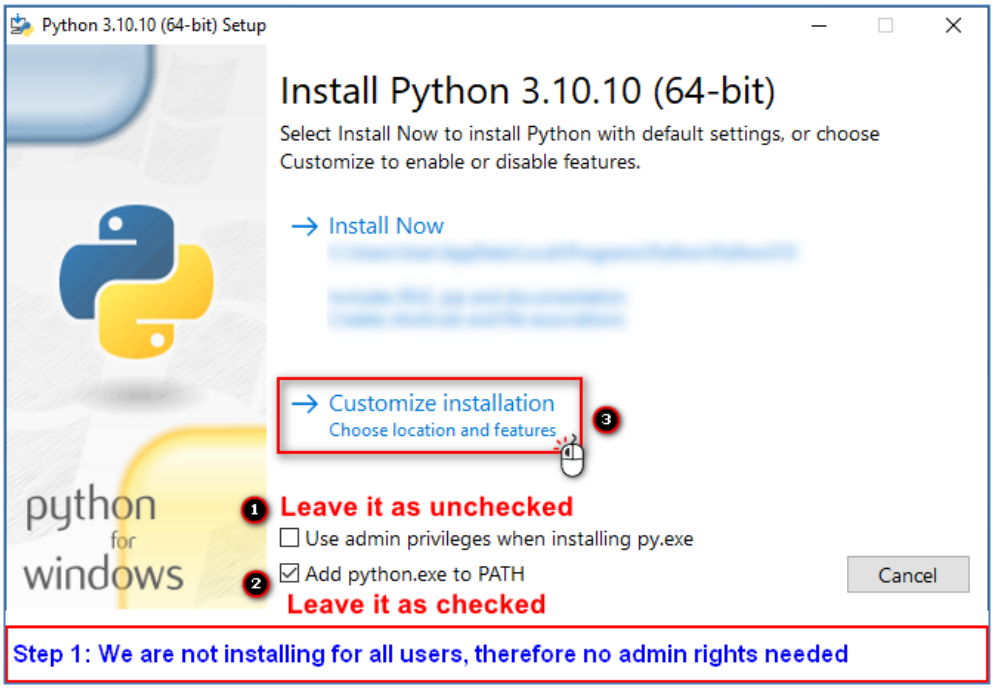
Table of Contents

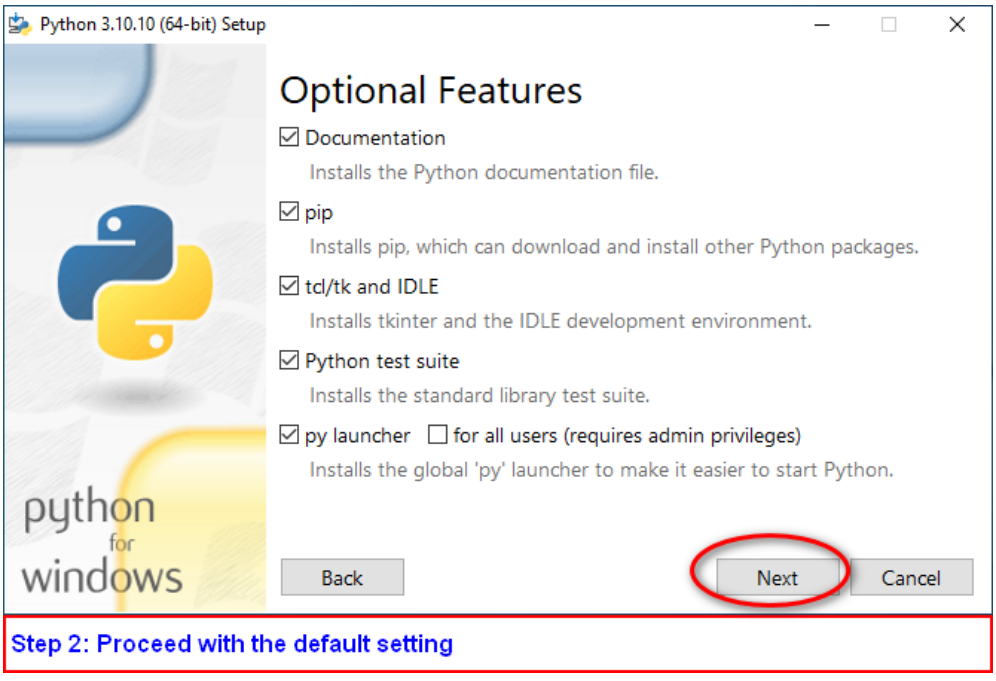
Section 1 – Installation of "Python 3.x"

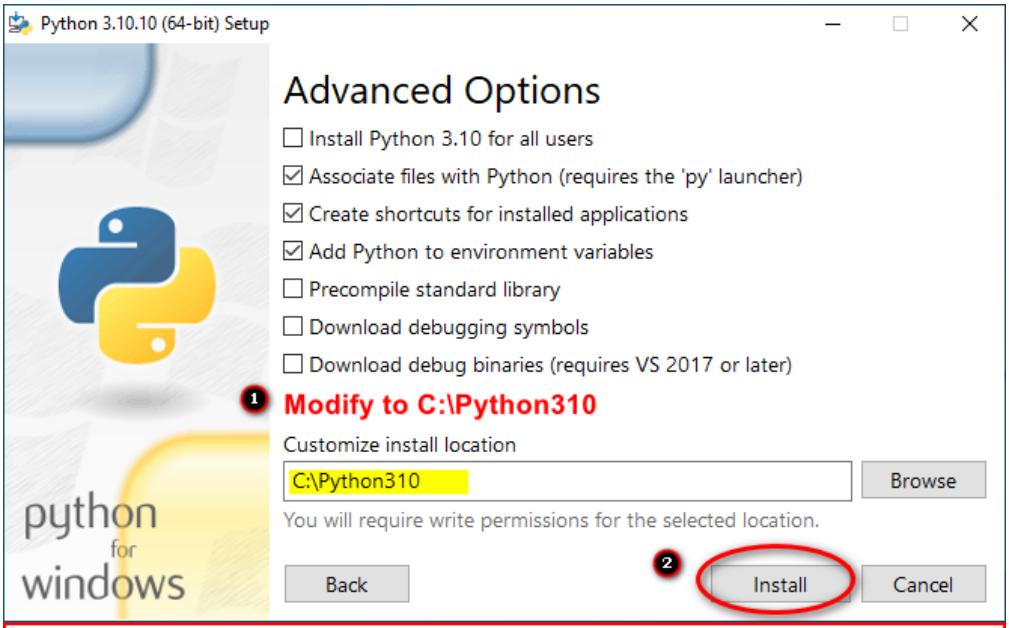
a. Download the Python installer file from https://www.python.org/downloads/
(In this example, we will be using Python 3.10.10), but this guide is largely applicable to newer versions.

Double click on the downloaded file to start the installation.

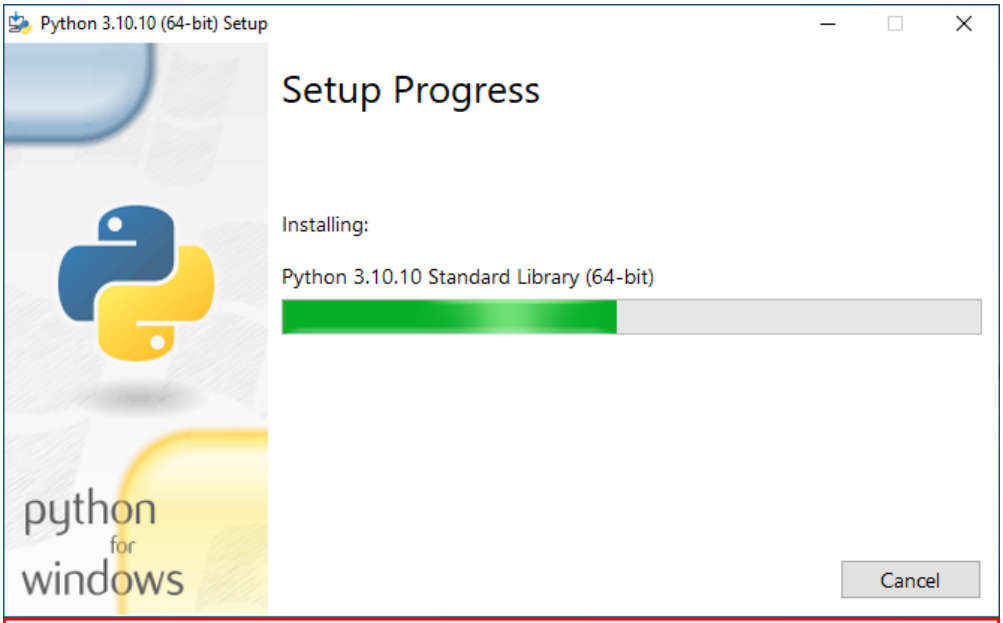
b. At the "Python 3.10.10 Setup" window, follow the images to install.



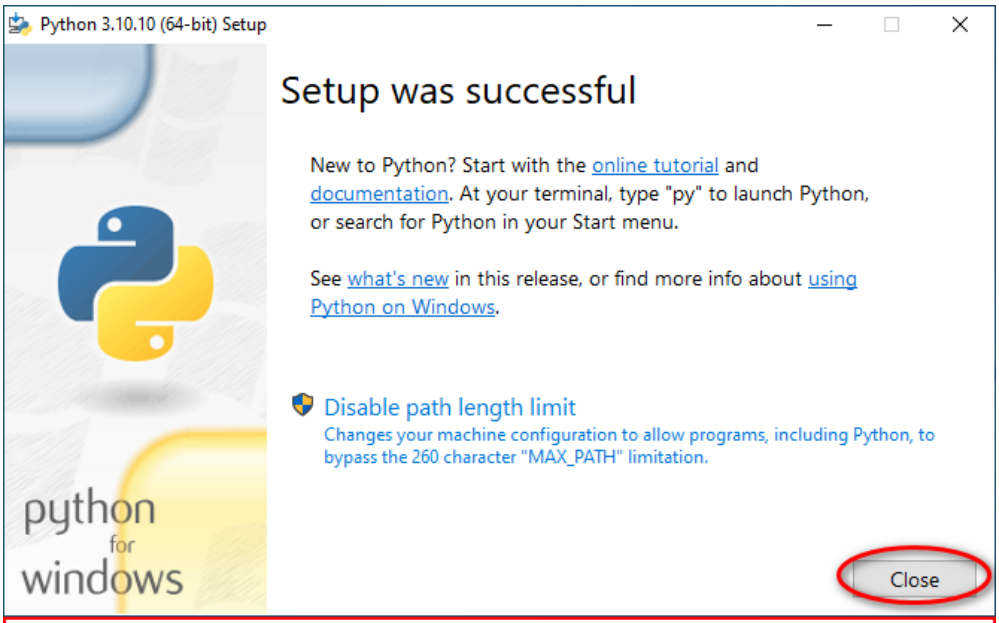




Step 3: This is just a suggested location, for ease of locating it



Step 4: Installation is in progress....



Step 5: Installation has completed!

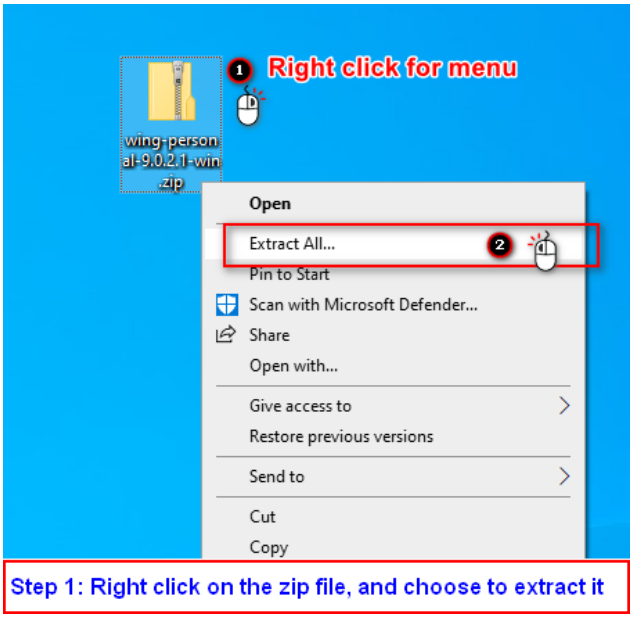
Section 2 – Preparing WingIDE as a tools to write Python code

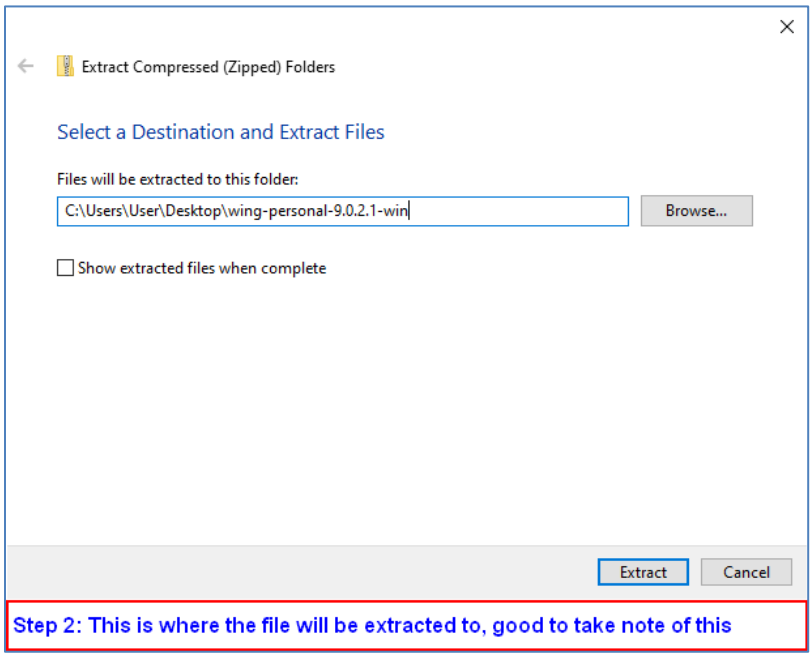
a) Download the file **"wing-personal-9.0.2.1-win.zip"** from the link below.

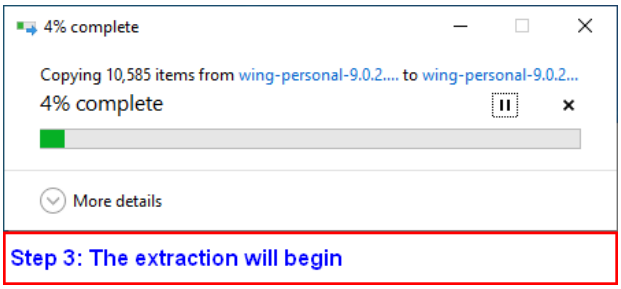
https://wingware.com/pub/wing-personal/9.0.2.1/wing-personal-9.0.2.1-win.zip

Note: This is a zipped version of WingIDE where no installation is required.

b) Locate the downloaded "**wing-personal-9.0.2.1-win.zip**" file. Follow the images below to extract the downloaded file.



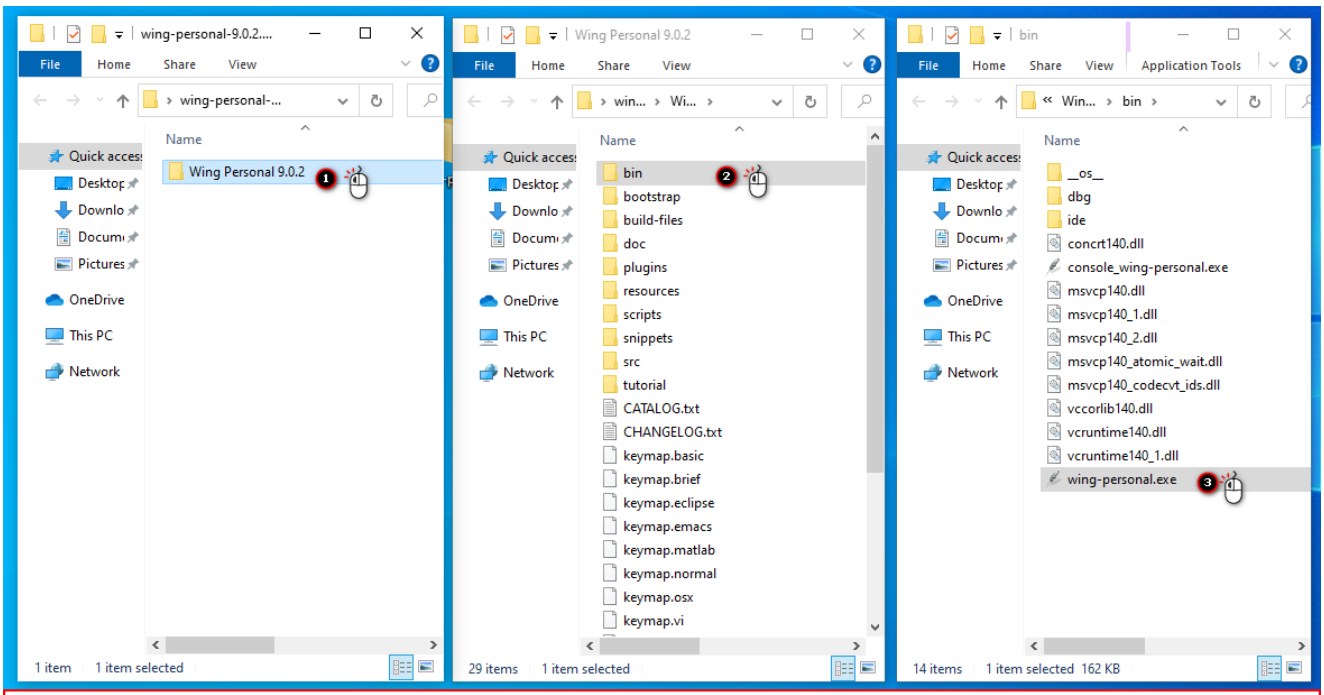




Step 3: The extraction will begin

c) After the extraction completes, we will run the WingIDE.

At the folder where the files have been extract, Navigate to “Wing Personal 9.0.2” folder, followed by “bin” and run the file “wing-personal.exe” by double clicking on it. The sequence is shown below:

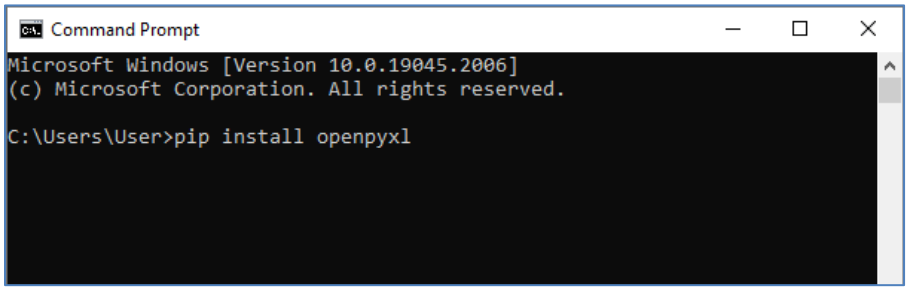


Steps to locate the program - "wing-personal.exe"

d) Do remember the location of this folder. Subsequent runs will need this to be located.

Section 3 – Installation of Python modules

Typically, installation of Python modules can be done via Windows Command prompt.



However, if that is not possible (due to restrictions on the Command Prompt, confused due to multiple Python interpreter instances installed), you can run a Python script to install the Python modules instead.

```
import subprocess
import sys

subprocess.check_call([sys.executable, "-m", "pip", "install", "openpyxl"])
subprocess.check_call([sys.executable, "-m", "pip", "install", "pillow"])
subprocess.check_call([sys.executable, "-m", "pip", "install", "requests"])
subprocess.check_call([sys.executable, "-m", "pip", "install", "beautifulsoup4"])


try:
    import openpyxl
    print("module 'openpyxl' is installed")
except ModuleNotFoundError:
    print("module 'openpyxl' is not installed")
    print("try running this Python script again")

try:
    import PIL
    print("module 'pillow' is installed")
except ModuleNotFoundError:
    print("module 'pillow' is not installed")
    print("try running this Python script again")

try:
    import requests
    print("module 'requests' is installed")
except ModuleNotFoundError:
    print("module 'requests' is not installed")
    print("try running this Python script again")

try:
    import bs4
    print("module 'beautifulsoup4' is installed")
except ModuleNotFoundError:
    print("module 'beautifulsoup4' is not installed")
    print("try running this Python script again")
```