How to use PyCharm

Breanna McBean

California State University, Fullerton

May 29th, 2019

CALIFORNIA STATE UNIVERSITY
FULLERTON

venv   Add Configuration...

Project ▼   ⊕ ⊼ ⚙ —

▶ 🗀 ve   C:\Users\bmcbe\Desktop\venv   When you open a new project in PyCharm, you will see a screen that looks like this.
▶ 📊 Ext rnal Libraries
  🔖 Scr tches and Consoles

                                                    Search Everywhere Double Shift

To get started on a new   Go to File Ctrl+Shift+N
Python file, make sure you are
in the "Project" node.   Recent Files Ctrl+E

                                                    Navigation Bar Alt+Home

                                                    Drop files here to open

🐍 Python Console   ⌦ Terminal   ☰ 6: TODO   ⟳ Indexing...

File   Edit   View   Navigate   Code   Refactor   Run   Tools   VCS   Window   Help

📁 venv   Add Configuration...

☐ Project ▼   ⊕ ⬆ ⚙ —

▶ 📁 **venv** C:\Users\bmcbe\Desktop\venv
▶ ⏸ External Libraries
  🕐 Scratches and Consoles

┌─────────────────────────────────┬──┐
│ **New**   ▶ │ 📄 File   │
├─────────────────────────────────┤ 🕐 New Scratch File   Ctrl+Alt+Shift+Insert │
│ ✂ Cut   Ctrl+X   │ 📁 Directory   │
│ 📋 Copy   Ctrl+C   │ 📦 Python Package   │
│   Copy Path   Ctrl+Shift+C│ 🐍 Python File   │
│   Copy Relative Path Ctrl+Alt+Shift+C│   ere Double Shift │
│ 📋 Paste   Ctrl+V   │ H HTML File   │
│   │ 📊 Resource Bundle   Shift+N   │
│   Find Usages   Alt+F7   │   │
│   Find in Path... Ctrl+Shift+F│   Recent Files Ctrl+E   │
│   Replace in Path... Ctrl+Shift+R│   │
│   Inspect Code...   │   Navigation Bar Alt+Home   │
│   │   │
│   Refactor   ▶ │   Drop files here to open   │
│   Clean Python Compiled Files │   │
│   │   │
│   Add to Favorites   ▶ │   │
│   Show Image Thumbnails Ctrl+Shift+T│   │
│   │   │
│   Reformat Code   Ctrl+Alt+L │   │
│   Optimize Imports Ctrl+Alt+O │   │
│   │   │
│   Show in Explorer   │   │
│ ▶ Open in Terminal   │   │
│   │   │
│   Local History   ▶ │   │
│ 🔄 Synchronize 'venv'   │   │
│   │   │
│   Directory Path   Ctrl+Alt+F12│   │
│ ⬅ Compare With... Ctrl+D   │   │
│   │   │
│   Mark Directory as   ▶ │   │
└─────────────────────────────────┴──┘

Right click within this area and select
"New", then "Python File"

🐍 Python Co

📋 Creates a Pyth   ✳ Updating skeletons for C:\ProgramData\Anaconda3\python.exe...

venv > testing.py

Add Configuration...

Project

venv C:\Users\bmcbe\Desktop\venv
    Include
    Lib
    Scripts
    pyvenv.cfg
    testing.py
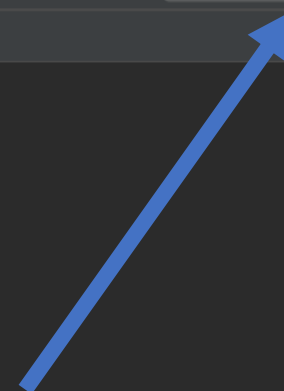   External Libraries
    Scratches and Consoles

testing.py

Now that we have a Python file, we need to choose an interpreter.

Python Console   Terminal   6: TODO

1:1   n/a   UTF-8   4 spaces

File   Edit   View

venv › tes

Project ▾

▾ venv C
  Inclu
  ▶ Lib
  ▶ Scri
  pyv
  testi
  ▶ External
  Scratch

2: Favorites

7: Structure

Python C

+   —   ⎘   🔧   ▲   ▼   🗁   ↓ᵃᵤᵤ

▶ ˅ **Templates**

Click the **+** button to create a new configuration based on templates

Click this plus sign to choose the interpreter

▶ Configurations available in Run Dashboard

☑ Confirm rerun with process termination
☑ Confirm deletion from Run/Debug popup

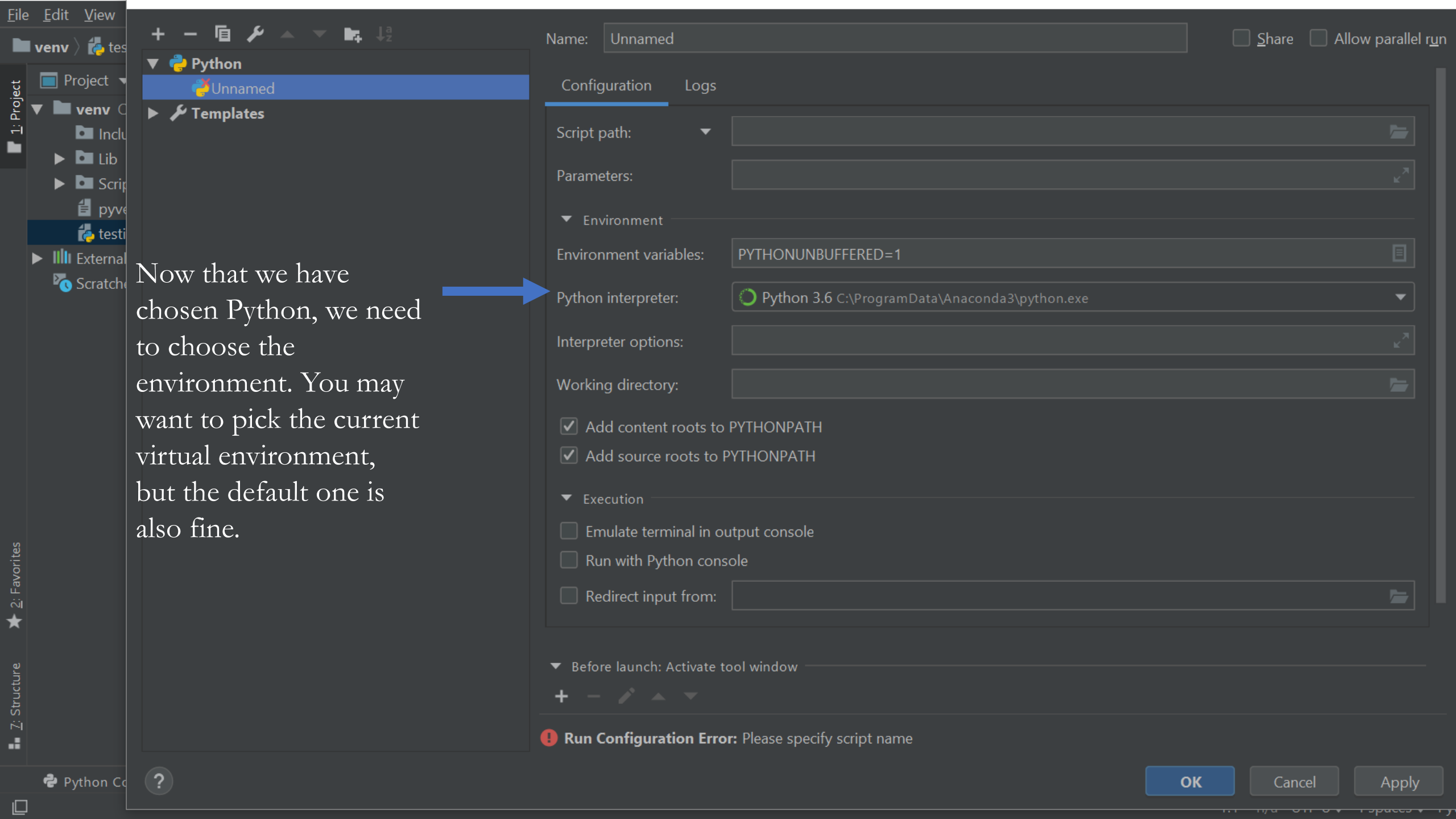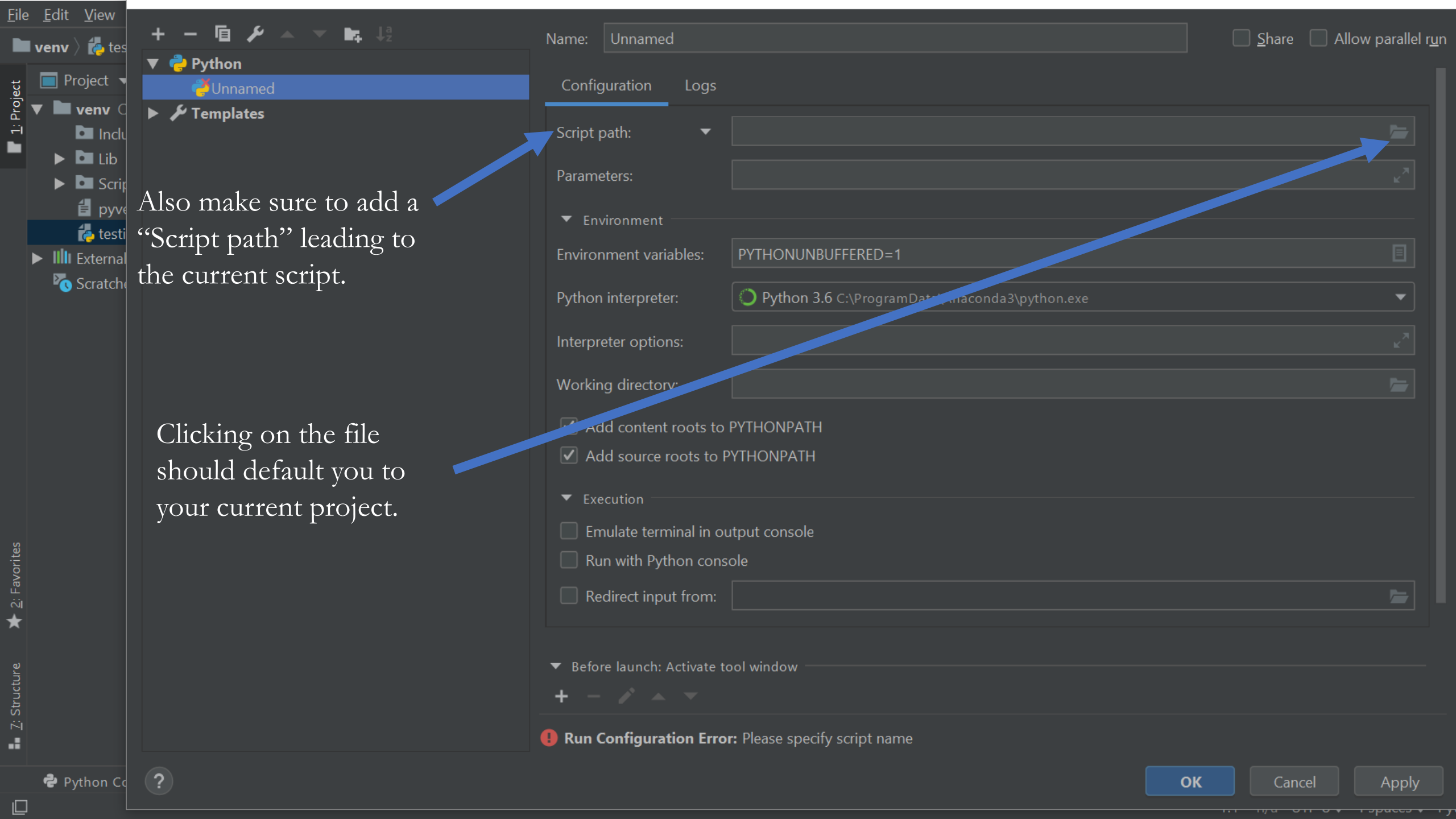Temporary configurations limit: 5

?   OK   Cancel   Apply

File   Edit   View

venv › tes

Project ▼

venv
  Incl
  ▶ Lib
  ▶ Scri
  pyv
  testi
  ▶ External
  Scratch

+ − 🗐 🔧 ▲ ▼ 🗁 ↓ᶻₐ

▼ 🐍 Python
    🐍 Unnamed
  ▶ 🔧 Templates

Name: Unnamed   ☐ Share   ☐ Allow parallel run

Configuration   Logs

Script path: ▼   [   ] 🗁

Parameters: [   ] ⤢

▼ Environment

Environment variables: [PYTHONUNBUFFERED=1   ] 🗒

Python interpreter: [🔘 Python 3.6 C:\ProgramData\Anaconda3\python.exe] ▼

Interpreter options: [   ] ⤢

Working directory: [   ] 🗁

☑ Add content roots to PYTHONPATH
☑ Add source roots to PYTHONPATH

▼ Execution
☐ Emulate terminal in output console
☐ Run with Python console
☐ Redirect input from: [   ] 🗁

▼ Before launch: Activate tool window

+ − 🖉 ▲ ▼

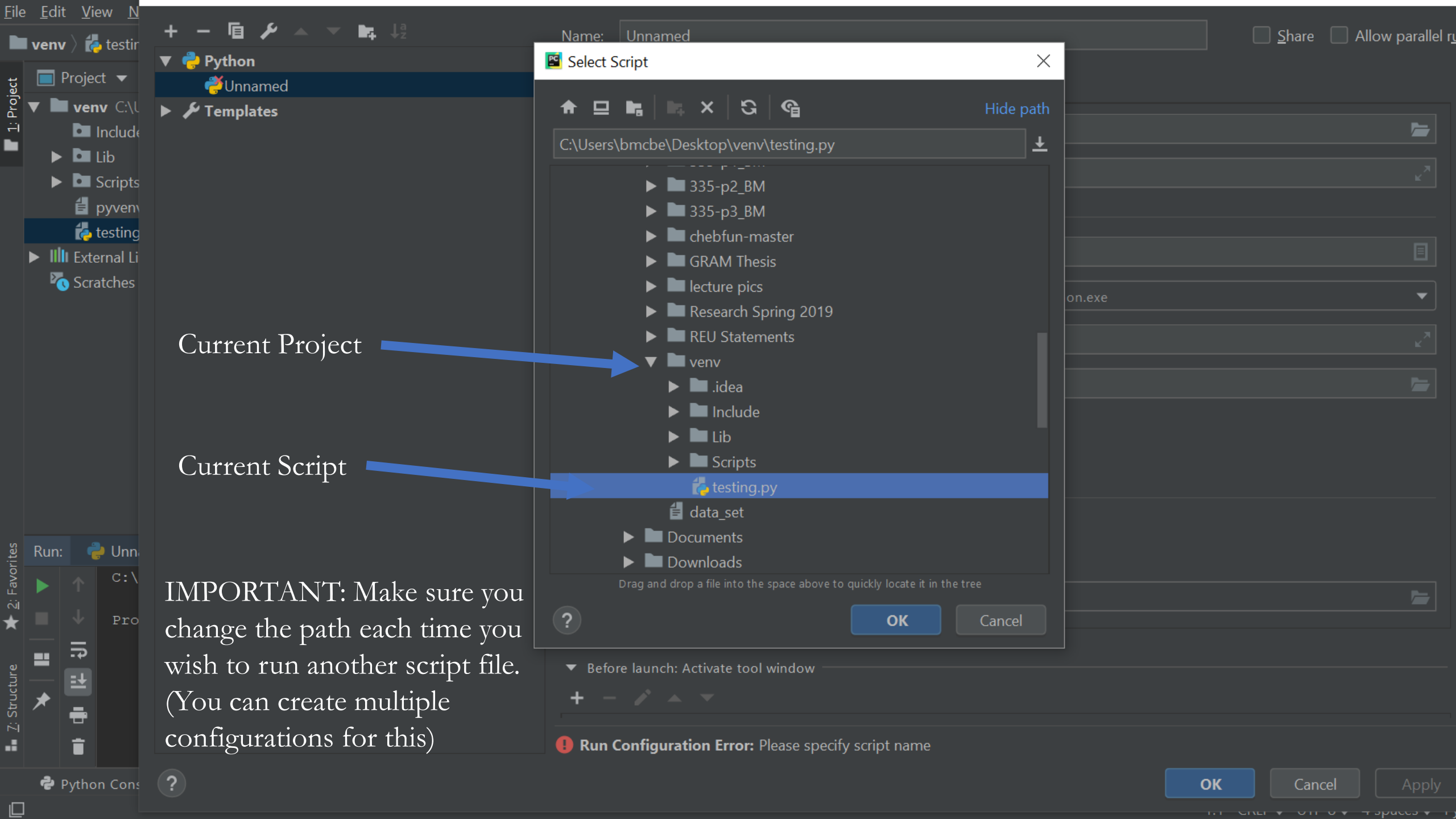🛑 **Run Configuration Error:** Please specify script name

Now that we have
chosen Python, we need
to choose the
environment. You may
want to pick the current
virtual environment,
but the default one is
also fine.

Python Co

?

OK   Cancel   Apply

venv ⟩ tes

Project

venv
Inclu
Lib
Scri
pyve
testi
External
Scratch

Python Co

Name: **Unnamed**

☐ Share ☐ Allow parallel run

▼ 🐍 **Python**
    🐍 Unnamed
▶ 🔧 **Templates**

Configuration   Logs

Script path: ▼

Parameters:

▼ Environment

Environment variables: PYTHONUNBUFFERED=1

Python interpreter: ⚫ Python 3.6 C:\ProgramData\naconda3\python.exe   ▼

Interpreter options:

Working directory:

☑ Add content roots to PYTHONPATH
☑ Add source roots to PYTHONPATH

▼ Execution
☐ Emulate terminal in output console
☐ Run with Python console
☐ Redirect input from:

▼ Before launch: Activate tool window

+ − ✏ ▲ ▼

⊗ **Run Configuration Error:** Please specify script name

Also make sure to add a "Script path" leading to the current script.

Clicking on the file should default you to your current project.

?   **OK**   Cancel   Apply

venv ＞ testin

Name: Unnamed

☐ Share   ☐ Allow parallel r

1: Project

▦ Project ▾

▼ ▦ venv C:\U
  ▦ Includ
  ▶ ▦ Lib
  ▶ ▦ Scripts
  ▤ pyven
  testing
▶ ▥ External Li
  ▥ Scratches

▼ 🐍 Python
    🐍 Unnamed
  ▶ 🔧 Templates

Select Script   ✕

🏠 ▭ ▦ ▦ ✕ ↻ ▣   Hide path

C:\Users\bmcbe\Desktop\venv\testing.py   ↓

    ▶ ▦ 335-p2_BM
    ▶ ▦ 335-p3_BM
    ▶ ▦ chebfun-master
    ▶ ▦ GRAM Thesis
    ▶ ▦ lecture pics
    ▶ ▦ Research Spring 2019
    ▶ ▦ REU Statements
    ▼ ▦ venv
        ▶ ▦ .idea
        ▶ ▦ Include
        ▶ ▦ Lib
        ▶ ▦ Scripts
            🐍 testing.py
          ▤ data_set
      ▶ ▦ Documents
      ▶ ▦ Downloads

Drag and drop a file into the space above to quickly locate it in the tree

❓   OK   Cancel

Current Project

Current Script

IMPORTANT: Make sure you change the path each time you wish to run another script file. (You can create multiple configurations for this)

Run: 🐍 Unn

▶ ↑   C:\
■ ↓   Pro

▼ Before launch: Activate tool window

+ — ✎ ▲ ▼

❗ **Run Configuration Error:** Please specify script name

❓   OK   Cancel   Apply

🐍 Python Cons