How-to perform a python qc check

# preliminary python setup:

1. Install the latest 3.x version of Python from their website:

<https://www.python.org/downloads/>

1. Install the newest version of PyCharm – Community Edition from the Jet Brains website:

<https://www.jetbrains.com/pycharm/download/#section=windows>

1. Create a GitHub account on their website:

<https://github.com/>

1. Install GitHub Desktop:

<https://desktop.github.com/>

1. Request to clone the repository:

<https://github.com/mac3ksu/FE-D20_Checker.git>

\*All installations are free and require no collaboration with IT.

# the qc Check checklist:

1. From the SGConfig, export the device configuration in review to a .xml document.
2. Download the D20 DNP Map WinPt Check Template.
   1. Transfer all points (status, analog, and control) from the points list to this template.

# the qc check:

1. Open the D20\_XML\_Main.py PyCharm folder.
   1. Use this path: *File 🡪 Settings 🡪 Project 🡪 Project Interpreter 🡪 + (green addition sign, top right corner) 🡪 application name (top search bar) 🡪 Install Package*,to install the applications xlrd and tkinter.
2. To start the check, either:
   1. Hit Shift+F10.
   2. Click the green play button in the top right-hand corner of the screen.
   3. Right click the D20\_XML\_Main.py title block at the top of the page then click “Run D20\_XML\_Main”.
3. A file chooser will pop up prompting you to choose a .xml document to check. This is the document from “The QC Checklist” step 1.
4. A second file chooser will pop up prompting you to choose a D20 DNP Map WinPt Check. This is the document from “the QC Checklist” step 2.
5. After the check is complete, the program will output a .txt file called *filename*Check.txt where *filename* is dynamic based on which file you choose.
6. Use this file for your QC Review and save at least 30 minutes of previously wasted time.