**Please help me explain the possible ways of converting my matlab codes (m-file) to python codes.**

A simple text file called an "m-file" or "script file" allows you to store MATLAB commands. When you run the file, MATLAB reads the commands and runs them exactly as if you had typed them one after another at the MATLAB prompt.

Step 2 of 3

Python is a well-known computer programming language used to build websites and software, automate procedures, and conduct data analysis. Since Python is a general-purpose language, it may be used to create a wide range of applications and isn't specifically designed to address any particular problems.

Step 3 of 3

Python is one of the numerous programming languages that MATLAB can integrate into a flexible, two-way fashion. This makes it possible for several teams to collaborate while using MATLAB algorithms in production software and IT systems.

We have two alternatives when converting MatLab to Python: either do it manually or use a program. A program called SMOP (Small MatLab and Octave to Python Compiler) is used to translate Matlab into Python. This tool can parse simple Matlab code into Python after comprehending it.

Other choices are

LiberMate: Matlab to Python and SciPy translation (Requires Python 2, last update 4 years ago).

MATLAB source files will try to be converted to Python using LiberMate. The translated python code will be written to python files with the same name but ending in.py, whereas the MATLAB files must finish with m.

Matlab to Python with OMPC (a bit outdated).

The benefit of OMPC is that it is a free and open collaboration platform that enables the reuse of code created for the for-profit MATLAB® platform without the need for time-consuming rewriting. OMPC converts MATLAB® code into syntax that is appropriate for Python.

Matlab to Python, or Mat2py (Requires Python 2).

compiler created to convert Matlab script into code that can run straight in a Python environment without any modifications.

Explanation

MatLab is converted to Python using SMOP. Despite their obvious similarities, MatLab and Numeric Python differ sufficiently from one another that manual translation is practically impossible. Python that is produced by SMOP is human-readable and appears to be faster than an octave.

**Final Answer**

A program called SMOP (Small Matlab and Octave to Python Compiler) is mostly used to translate Matlab code into Python. This tool can parse simple Matlab code into Python after comprehending it. Even though every tool has its drawbacks, this one is most effective with low-level programs.