

## **Script execution steps**

- 1. Unzip the files. Ensure that all python files and HKDTM, Hong\_Kong\_18\_Districts folders are in the same folder level.
- 2. Open Anaconda Navigator and switch to the ArcGIS Pro environment with arcpy.
- 3. Open Terminal in Anaconda Navigator
- 4. Ensure that the Python version is at least 3.7. Run `python -V` to view the version.
- 5. Ensure that geopy has been installed. Run `pip install geopy` if you have not.
- 6. Run`cd C:/your/path/goes/here` to change the current working directory. Replace the path with the **actual directory** containing the python files.
- 7. Run python question1.py.
- 8. Run `python question2.py`.
- 9. Run python question3.py.
- 10. Run `python bonus1.py`.
- 11. Run `python bonus2.py`.
- 12. Note that question1.py must be run before all other files to instantiate the gdb folder and the necessary feature files.

## Steps to import feature classes to ArcGIS Pro

- 1. Ensure that all Python files have been run.
- 2. Click Map > Add Data, double click the gdb file.
- 3. For question 1, select All\_Facilities\_Density, Badminton\_Court\_Density, Basketball\_Court\_Density, Country\_Parks\_Density, Fitness\_Center\_Density, Parks\_Gardens\_Density, Sports\_Grounds\_Density, and Swimming\_Pools\_Density.
- 4. For question 2, select Badminton\_Court\_Walk\_Intersect and Badminton Court User Intersect.
- 5. For question 3, select ThreeTypeIntersect.
- 6. For bonus question 1, select Badminton\_Courts\_Near\_PolyU, Basketball\_Courts\_Near\_PolyU, Other\_Recreation\_Sports\_Facilities\_Near\_PolyU, Swimming\_Pools\_Near\_PolyU.
- 7. For bonus question 2, select FlatArea.