

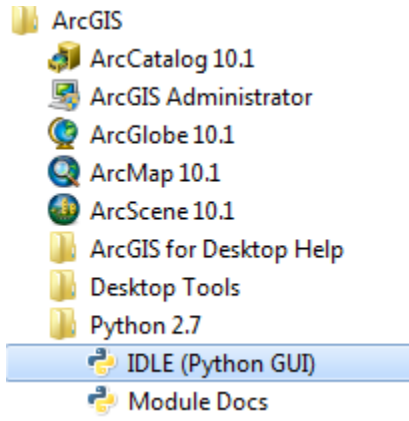
## Quick Guide for Generating Stream Network Files

### 1. Check your environment setting

Python 2.7 or later for ArcGIS is essential to run the scripts

Spatial Analysis Tool is required (for now)

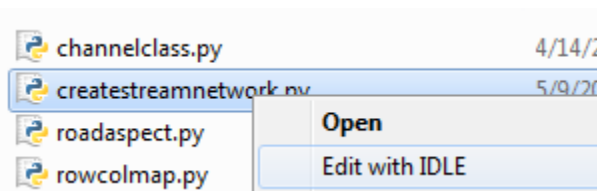
To check setting: Windows Start – All Programs – ArcGIS folder



### 2. Working directory and Inputs

Put the python scripts in the same directory as the DEM and MASK/MOUTH layer

Right click on “createstreamnetwork.py” – Edit with IDLE



Enter the directory you want the work to be performed **workspace** (use the same format as the sample below)

Set **path** the same as workspace (use the same format as the sample below)

**elev** – DEM (pre-filled)

**wshed** – watershed mask or watershed outlet

**soildepth** – name of soil depth file

**streamfile** – name of stream network shape file

**key** -- 'MASK' or 'MOUTH'

**source** -- Min source area to initiate stream

**mindepth** -- Minimum Soil Depth

**maxdepth** -- Maximum Soil Depth

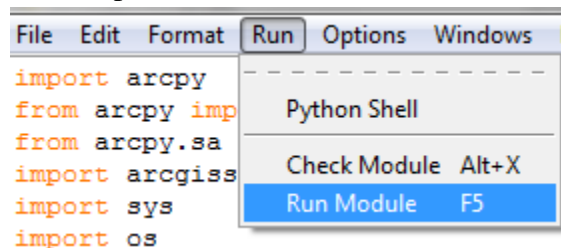
Sample Input:

```
#----- Workspace -----#
#----- Workspace -----#
#----- Workspace -----#
env.workspace = "C:\\Users\\username\\Documents\\foldername"
path = "C:/Users/username/Documents/foldername/"

#----- Setup Input -----#
##### Setup Input #####
#----- Setup Input -----#
elev = "dem" # name of DEM GRID file
wshed = "mask" # name of MASK file
soildepth = "soild" # name of soil depth file
streamfile = "streamfile" # name of stream arc file
key = 'MASK' # Enter 'MASK' or 'MOUTH'
source = 4860000 # Min source area to initiate stream
mindepth = 0.76 # Minimum Soil Depth
maxdepth = 2.01 # Maximum Soil Depth
```

### 3. Run Scripts

Run script from IDLE editor Toolbar – Run – Run Module



### 4. Output

stream.network.dat

Stream.map.dat

Stream network will be stored in the geodatabase under the same directory