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GEOG 4057 Guided Project 2

Objective: Use python codes to write elevation values for the points from the csv file from Google Earth Engine and write the values to shapefile. Also make an ArcGis Toolbox interface.

Step 1: Read the csv file and convert it to a feature class usable in GIS

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Step 2: Convert to Feature class

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Step 3: Create shapefile

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Step 4: Retrieve Data from Earth Engine

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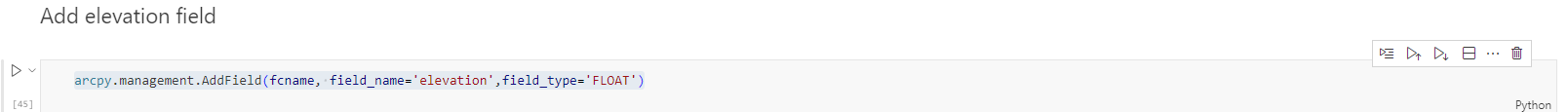
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Step 5: Create a Feature class and add elevation data to the features

A close-up of a computer screen

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Step 6: Add elevation data field



The code works accordingly.

**PYTHON code**

Copy the Jupyter notebook code to a Python file for execution

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**ArcGis Pro**

1. Create a ArcGIS Pro Toolbox named Elevation

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1. Define the Parameters to be used for creating the feature class

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Define the project workspace, csv file input, name of output shapefile, then the Coordinate Reference System EPSG code.

1. Add the point feature class created to Map

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1. Prepare a layout map

A map of water boundary

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