

GIS 6103

Programming for GIS – Class 11

Exercise 2

Write a module that includes the two functions below and then create the calling script for them.

Function 1

This function will open a text file of coordinates and create a new point feature class from them. It will then buffer these point features three times based on three different buffer distances. The function will return a list of the output names for the 3 feature classes produced. Arguments to the function should include the name of the coordinate file, the separator in this file used to separate the x and y coordinates, and the three buffer distances.

Function 2

This function will generate buffers around any line feature classes present in the current workspace based on two different buffer distances. It will then perform an intersection between the buffered line feature classes and the buffered point feature classes from function 1 for each combination of buffer distances used. In other words the total number of intersection feature classes would be 6 (3x2). It will use a value table as input to the intersect tool. The names of the output files should reflect the line and point buffer distances used. Arguments to this function should include the list of output names from function 1 and the two buffer distances to be used on the line features.