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from PyQt5.QtGui import *
from PyQt5.QtCore import *
from qgis.core import *
from qgis.utils import *
from osgeo import ogr,osr
import numpy as np
#punkty do wpisania - 4
pkt=np.zeros((4,2),float)
pkt[0,0]=438700;pkt[0,1]=706400
pkt[1,0]=440260;pkt[1,1]=706400
pkt[2,0]=438700;pkt[2,1]=705500
pkt[3,0]=440260;pkt[3,1]=705500
print(pkt)
driver=ogr.GetDriverByName('ESRI shapefile')
workPath = "B:\\Python QGIS\\aQGIS_Hel_2018\\Jacka\\moje_J\\D3\\"
nazwa new = "Linie nowe"
shp_new=workPath + nazwa new + ".shp"
prj new=workPath + nazwa new + ".prj"
#tworzenie pliku prj
coor sys = osr.SpatialReference() #obiekt klasy SpatialReference
coor_sys.ImportFromEPSG(2180)
coor sys.MorphToESRI()
f prj = open(prj new, 'w')
f prj.write(coor sys.ExportToWkt())
f prj.close()
#tworzenie pustej warstwy i pol atrybutow
dataSource=driver.CreateDataSource(shp_new) #type: osgeo.ogr.DataSource
if dataSource is None:
   print("upss")
else:
    print("Data source OK")
vlayer=dataSource.CreateLayer(nazwa new,coor sys,geom type = ogr.wkbLineString) #class
'osgeo.ogr.Layer'
field def = ogr.FieldDefn("IDD",ogr.OFTInteger)
vlayer.CreateField(field def)
#tworzenie "zmiennej feature"
feature def = vlayer.GetLayerDefn() #typ warstwy i jakie sa atrybuty
feature = ogr.Feature(feature def)
linia = ogr.Geometry(ogr.wkbLineString) #pusta geometria
x = pkt[0,0]; y = pkt[0,1]
linia.AddPoint(x,y)
x = pkt[3,0]; y = pkt[3,1]
linia.AddPoint(x,y)
feature.SetGeometry(linia)
feature.SetField('IDD',1)
vlayer.CreateFeature(feature)
linia.Empty()
x = pkt[2,0]; y = pkt[2,1]
linia.AddPoint(x,y)
x = pkt[1,0]; y = pkt[1,1]
linia.AddPoint(x,y)
feature.SetGeometry(linia)
feature.SetField('IDD',2)
vlayer.CreateFeature(feature)
linia.Empty()
x = pkt[0,0]; y = pkt[0,1]
linia.AddPoint(x,y)
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x = pkt[2,0];y = pkt[2,1]
linia.AddPoint(x,y)
feature.SetGeometry(linia)
feature.SetField('IDD',3)
vlayer.CreateFeature(feature)
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feature.Destroy()
dataSource = None
print("OK")
```