import os

import requests

import untangle

from openpyxl import Workbook

path = os.path.dirname(\_\_file\_\_)

def k(a):

return a[0]

data = []

for i in range(2019, 2021):

page = requests.get("http://localhost:8000/dicj/"+str(i)+"/report\_cn.xml")

page.encoding = "utf8"

doc = untangle.parse(page.text)

for j in range(12):

text = doc.STATISTICS.REPORT.DATA.RECORD[j].DATA[1].cdata

text = text.replace(",", "")

data.append([float(text), i, j+1])

page = requests.get("http://localhost:8000/dicj/2021/report\_cn.xml")

page.encoding = "utf8"

doc = untangle.parse(page.text)

for j in range(10):

text = doc.STATISTICS.REPORT.DATA.RECORD[j].DATA[1].cdata

text = text.replace(",", "")

data.append([float(text), 2021, j+1])

data.sort(key=k)

print(data)

with open(os.path.join(path, "outputs/dicj\_summary.txt"), "w") as f:

f.write("最低值：{}，於{}年{}月發生。\n".format(data[0][0], data[0][1], data[0][2]))

f.write("最高值：{}，於{}年{}月發生。".format(data[-1][0], data[-1][1], data[-1][2]))

#####

wb = Workbook()#average

ws = wb["Sheet"]

for i in range(2010, 2021):

page = requests.get("http://localhost:8000/dicj/"+str(i)+"/report\_cn.xml")

page.encoding = "utf8"

doc = untangle.parse(page.text)

x = 0

for j in range(12):

text = doc.STATISTICS.REPORT.DATA.RECORD[j].DATA[1].cdata

text = text.replace(",", "")

x += float(text)

x = x/12

ws["A"+str(i-2009)].value = i

ws["B"+str(i-2009)].value = x

page = requests.get("http://localhost:8000/dicj/2021/report\_cn.xml")

page.encoding = "utf8"

doc = untangle.parse(page.text)

for j in range(10):

text = doc.STATISTICS.REPORT.DATA.RECORD[j].DATA[1].cdata

text = text.replace(",", "")

x += float(text)

x = x/10

ws["A11"].value = 2021

ws["B11"].value = x

wb.save(os.path.join(path, "outputs/dicj\_average2.xlsx"))