**Завдання 2. Звіт**

*1) Файли:*

Task2\_1.py

from Task2\_2 import Task2\_2  
  
  
class Task2\_1:  
 def \_\_init\_\_(self):  
 self.sqlite\_connection = Task2\_2.connect\_db()  
 self.cursor = self.sqlite\_connection.cursor()  
  
 def close(self):  
 if (self.sqlite\_connection):  
 self.sqlite\_connection.close()  
 *# print('sqlite connection closed')* def lemma(self, word):  
 wf = Task2\_2.lemma(self.cursor, word)[0]  
 return wf[0]  
  
 def taging(self, word):  
 wf = Task2\_2.lemma(self.cursor, word)[0]  
 fid\_structure = Task2\_2.lemma(self.cursor, word)[1]  
  
 fid\_tail = int(fid\_structure[1])  
 if fid\_tail < 8:  
 number = "одн"  
 else:  
 number = "мн"  
  
 vidm = "Немає"  
 if fid\_tail == 1 or fid\_tail == 8:  
 vidm = "Наз"  
 if fid\_tail == 2 or fid\_tail == 9:  
 vidm = "Род"  
 if fid\_tail == 3 or fid\_tail == 10:  
 vidm = "Дав"  
 if fid\_tail == 4 or fid\_tail == 11:  
 vidm = "Знах"  
 if fid\_tail == 5 or fid\_tail == 12:  
 vidm = "Оруд"  
 if fid\_tail == 6 or fid\_tail == 13:  
 vidm = "Місц"  
 if fid\_tail == 7 or fid\_tail == 14:  
 vidm = "Клич"  
  
 sqlite\_connection1 = Task2\_2.connect\_db('mph\_ua.db')  
 cursor1 = sqlite\_connection1.cursor()  
  
 sqlite\_select\_query = """SELECT com,istota,rid from parts where id=?"""  
 cursor1.execute(sqlite\_select\_query, (fid\_structure[0],))  
 data = cursor1.fetchone()  
 cursor1.close()  
  
 com = data[0]  
  
 if data[1] == 1:  
 istota = 'Так'  
 else:  
 istota = "Ні"  
  
 if data[2] == 1:  
 rid = 'Ч'  
 elif data[2] == 2:  
 rid = 'Ж'  
 elif data[2] == 3:  
 rid = 'С'  
 elif data[2] == 0:  
 rid = 'Немає'  
 else:  
 rid= "Змішаний"  
  
 return {  
 "lemma": wf[0],  
 "text": word,  
 "pos": com.rsplit(' ')[0],  
 "feats": "істота=" + istota + " | відм=" + vidm + " | рід=" + rid + " | число=" + number  
 }  
  
  
if \_\_name\_\_ == "\_\_main\_\_":  
 a = Task2\_1()  
  
 *# Лематизація* print(a.lemma('руками'))  
  
 *# POS-тегування* print(a.taging('сумці'))  
  
 a.close()

Task2\_2.py

import sqlite3  
  
  
class Task2\_2:  
 @staticmethod  
 def connect\_db(db\_name='dict\_ua.db'):  
 try:  
 return sqlite3.connect(db\_name)  
 except sqlite3.Error as error:  
 print("Error: ", error)  
  
 @staticmethod  
 def lemma(cursor, word):  
 sqlite\_select\_query = """SELECT fk\_inf,fid from wf where wf=?"""  
 cursor.execute(sqlite\_select\_query, (word,))  
 data = cursor.fetchone()  
 fid\_structure = data[1].rsplit('\_')  
  
 new\_fid = fid\_structure[0] + '\_1'  
 sqlite\_select\_query = """SELECT wf from wf where fk\_inf=? and fid=?"""  
 cursor.execute(sqlite\_select\_query, (data[0], new\_fid))  
 return [cursor.fetchone(), fid\_structure]

Також було завантажено dict\_ua.db, mph\_ua.db

*2) Вивід*

Graphical user interface, text, application, email

Description automatically generated