**1. Set the variable test1 to the string 'This is a test of the emergency text system,' and save test1 to a file named test.txt.**

test1 = 'This is a test of the emergency text system,'

f = open('test.txt','w')

f.write(test1)

f.close()

**2. Read the contents of the file test.txt into the variable test2. Is there a difference between test 1 and test 2?**

f = open('test.txt','r')

test2 = f.read()

No difference in test1 and test2

**3. Create a CSV file called books.csv by using these lines:**

**title,author,year**

**The Weirdstone of Brisingamen,Alan Garner,1960**

**Perdido Street Station,China Miéville,2000**

**Thud!,Terry Pratchett,2005**

**The Spellman Files,Lisa Lutz,2007**

**Small Gods,Terry Pratchett,1992**

f = open('books.csv','w',encoding='UTF-8',newline = "")

import csv

books = csv.writer(f)

for i in a:

books.writerow(i)

f.close()

**4. Use the sqlite3 module to create a SQLite database called books.db, and a table called books with these fields: title (text), author (text), and year (integer).**

import sqlite3

connection = sqlite3.connect("books.db") # will create database if not available

cursor = connection.cursor()

cursor.execute("CREATE TABLE books (title TEXT, author TEXT, year INTEGER)")

connection.commit()

**5. Read books.csv and insert its data into the book table.**

f = open('books.csv','r')

Csv\_data = f.readlines()

for i in a :

rows = i.split(',')

cursor.execute(f"INSERT INTO books VALUES (\'{rows[0]}\', \'{rows[1]}\', \'{rows[2]}\')")

connection.commit()

**6. Select and print the title column from the book table in alphabetical order.**

cursor.execute('select title from books order by title')

cursor.fetchall()

**7. From the book table, select and print all columns in the order of publication.**

cursor.execute('select \* from books order by year')

cursor.fetchall()

**8. Use the sqlalchemy module to connect to the sqlite3 database books.db that you just made in exercise 6.**

import sqlalchemy

engine=sqlalchemy.create\_engine(f'path of booksldb in our local')

**9. Install the Redis server and the Python redis library (pip install redis) on your computer. Create a Redis hash called test with the fields count (1) and name ('Fester Bestertester'). Print all the fields for test.**

Import redis

redisClient = redis.StrictRedis(host='localhost',port=6379,db=0)

result = redisClient.hmset("test", {'count': 1,"name": "Fester Bestertester"})

**10. Increment the count field of test and print it.**

result = redisClient.hincrby('test','count',1)

Print(result)