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)

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

Yes there is a difference test1 is a string object / reference.

Whereas test2 is \_io.TextIOWrapper object

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

Created

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

conn = sqlite3.connect('books.db')

curr = conn.cursor()

curr.execute('create table books (title text, author text, year integer)')

conn.commit()

curr.execute('describe books')

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

import csv

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

csv\_file =csv.reader(file)

header = next(csv\_file)

text = []

for i in csv\_file:

text.append(i)

for i in text:

for j in i:

data =(j.split(',')[0],j.split(',')[1],j.split(',')[2])

insert\_state = "insert into books(title,author,year) values(?,?,?);"

curr.execute(insert\_state,data)

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

curr.execute('select title from books order by title asc').fetchall()

[('Perdido Street Station',),

('Small Gods',),

('Small Gods',),

('The Spellman Files',),

('Thud!',)]

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

curr.execute('select \* from books order by year asc').fetchall()

[('Small Gods', 'Terry Pratchett', 1992),

('Small Gods', 'Terry Pratchett', 1992),

('Perdido Street Station', 'China Mi‚ville', 2000),

('Thud!', 'Terry Pratchett', 2005),

('The Spellman Files', 'Lisa Lutz', 2007)]

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

db = sqlalchemy.create\_engine(r'sqlite:///C://Users//ajin//books.db')

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.

Unable to locate the module even after installing

import redis

**---------------------------------------------------------------------------**

**ModuleNotFoundError** Traceback (most recent call last)

**<ipython-input-184-1fa5a3a95ebb>** in <module>

**----> 1 import** redis

**ModuleNotFoundError**: No module named 'redis'

Could you assist on this.

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