**Assignment 20**

In [1]:

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

print(test1)

**with** open('test.txt','w') **as** file:

file**.**write(test1)

file**.**close()

This is a test of the emergency text system,

In [2]:

*# read the contents of test.txt*

**!** type test.txt

This is a test of the emergency text system,

In [3]:

**2.with** open('test.txt','r') **as** file:

test2 **=** file**.**read()

print(test2)

print(test1 **==** test2)

This is a test of the emergency text system,

True

3.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

In [4]:

data **=** '''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'''

**with** open('books.csv','w') **as** file:

file**.**write(data)

In [5]:

**4.import** sqlite3

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

cursor **=** db**.**cursor()

cursor**.**execute("CREATE TABLE books (title text, author text, year int)")

db**.**commit()

db**.**

In [6]:

**5.import** sqlite3

**import** csv

conn **=** sqlite3**.**connect("books.db")

cursor **=** conn**.**cursor()

**with** open("books.csv","r") **as** file:

books **=** csv**.**DictReader(file)

**for** book **in** books:

cursor**.**execute("INSERT INTO books VALUES (?,?,?)",(book['title'],book['author'],book['year']))

conn**.**commit()

conn**.**close()

In [7]:

**6.import** sqlite3

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

cursor **=** conn**.**cursor()

output **=** cursor**.**execute("SELECT title FROM books ORDER BY title ASC")

**for** ele **in** output:

print(ele[0])

conn**.**commit()

conn**.**close()

Perdido Street Station

Small Gods

The Spellman Files

The Weirdstone of Brisingamen

Thud!**.**

In [8]:

**7.import** sqlite3

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

cursor **=** conn**.**cursor()

ouput **=** cursor**.**execute("SELECT \* FROM books ORDER BY year")

**for** record **in** ouput:

print(record)

('The Weirdstone of Brisingamen', 'Alan Garner', 1960)

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

('Perdido Street Station', 'China Miéville', 2000)

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

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

In [9]:

**8.import** sqlalchemy

conn **=** sqlalchemy**.**create\_engine('sqlite:///books.db')

conn

Out[9]:

Engine(sqlite:///books.db)

In [10]:

**9.!** python -m pip install redis

Requirement already satisfied: redis in c:\programdata\anaconda3\lib\site-packages (3.5.3)

In [13]:

**import** redis

conn **=** redis**.**Redis()

conn**.**hset('test',{

'count':1,

'name':'Fester Bestertester'

})

conn**.**hgetall('’)

In [14]:

10.conn**.**hincrby('test', 'count', 1)

conn**.**hget('test', 'count')

Out[14]:

b'13'