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.

**Ans:** test1= ''' This is a test of the emergency text system '''  
 with open ('test.txt', 'wt') as outfile:  
 outfile.write(test1)

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

**Ans:** with open ('test.txt', 'wt') as outfile:  
 test2= outfile.read()  
 print (test2)

1. 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

**Ans:** text= '''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', 'wt') as outfile:  
 outfile.write(text)

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

**Ans:** import sqlite3  
db = sqlite3.connect("books.db")  
curs = db.cursor()  
curs.execute('''create table book (title text, author text, year integer)''')  
db.commit()

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

**Ans:** import csv  
import sqlite3  
ins\_str = 'insert into book values (?,?,?)'  
with open('books.csv', 'w+') as file:  
 books = csv.DictReader(file)  
 for book in books:  
 curs.execute( ins\_str, (book ['title'], book ['author'],book ['year'],))

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

**Ans:** select= 'select title from book order by title asc'  
for row in db.execute(select):  
 print(row)

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

**Ans:** for row in db.execute(‘select \* from book order by year’):  
 print(row)

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

**Ans:** import sqlalchemy  
conn = sqlalchemy.create\_engine(‘sqlite://books.db’)  
select= 'select title from book order by title asc'  
 rows = conn.execute(sql)  
 for row in rows:  
 print (row)

1. 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.

**Ans:** import redis  
conn = redis.Redis()  
conn.delete(‘test’)  
conn.hmset(‘test’ {‘count’: 1, ‘name’: ‘ priyanka wawge’})  
conn.hagtall(‘test’)

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

**Ans:** conn = hincrby(‘test’, ‘count’, 3)  
conn.hget(‘test’, ‘count’)