- 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.

In [1]:
```
test1 = 'This is a test of the emergency text system,'
file = open('test.txt','w')
file.write(test1)
```

Out[1]: 44

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

In [4]:
```
file2 = open('test.txt','r')
test2 = file2.readline()
test2
```

Out[4]: 'This is a test of the emergency text system,'

In [ ]:
```
# both are same
```

- 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

In [7]:
```
import csv
rows =[ ['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('books1.csv','w',newline='') as file:
    writer = csv.writer(file)
    writer.writerows(rows)
```

- 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).

In [12]:
```
import sqlite3
conn = sqlite3.connect('books.db')
c = conn.cursor()

c.execute('create table books(title varchar(20),author varchar(20), year int)')
conn.commit()
```

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

In [13]:

```
import pandas as pd

read_books = pd.read_csv('books1.csv',encoding='unicode_escape')
read_books.to_sql('books',conn, if_exists='append', index=False)
```

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

In [14]:

```
c.execute('select title from books order by title asc')
print(c.fetchall())
```

```
[('Perdido Street Station',), ('Small Gods',), ('The Spellman Files',), ('The Weirdstone of Brisingamen',), ('Thud!',)]
```

In [ ]:

```

```