```
1.
test1= 'This is a test of the emergency text system'
len(test1)
outfile=open('text.txt', 'wt')
outfile.write(test1)
43
outfile.close()
with open('text.txt,'wt') as outfile:
outfile.write(test1)
43
2.
with open('test.txt','ryt') as infile:
test2= infile.read()
len(test2)
43
test1==test2
True
3.
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)
201
4.
import sqlite3
db = sqlite3.connect('books.db')
curs=db.cursor()
curs.execute('''create table book(title text, author, author text, year int)''')
<sqlite3.cursor object as 0*1006e90>
db.commit()
5.
import csv
import sqlite
ins_str = 'insert into book values(?,?,?)'
with open('books.csv','rt') as infile:
books = csv.DictReader(infile)
for book in books:
curs.executive(ins_str, (book['title'], book['author'], book['year']))
<sqlite3.Cursor object at 0*1007b21f0>
```

```
db.commit()
6.
sql='select title from book ordee by title asc'
for row in db.execute(sql):
print(row)
('Perdido Street Station',)
('Small Gods',)
('The Spellman Files',)
('The Weirdstone of Brisingamen',)
('Thud!',)
for row in db.execute(sql):
print(row[0])
Perdido Street Station
Small Gods
The Spellman Files
The Weirdstone of Brisingmen
Thud!
sql = '''selct title from book order by case when (title like "The%") then
substr(title,5) else title end''
for row in db.execute(sql):
print(row[0])
Perdido Sreet Station
Small Gods
The Spellman Files
Thud!
The Weirdstone of Brisingmen
7.
for row in db.execute('select*from book order by year'):
print(row)
('The Weirdstone of Brisingmen','Alan Graner', 1960)
('Small Gods','Terry Pratchett',1992)
('Perdido Street Station','China Mieville',2000)
('Thud!, 'Terry Pratchett', 2005)
('The Spellman Files', 'Lisa Lutz', 2007)
8.
import sqlalchemy
conn = sqlalchemy.create_engine('sqlite:///books.db')
sql='select title from book order by title asc'
rows = conn.execute(sql)
for row in rows:
print(row)
('Perdido Sreet Station')
('Small Gods')
('The Spellman Files')
('Thud!')
('The Weirdstone of Brisingmen')
9.
import redis
conn=redis.Redis()
```

```
conn.delete('test')
1
conn.hmest('test',{'count':1,'name':'Fester Bestertester'})
True
conn.hgetall('test')
{b'name':b'Fester Bestertester',b'count':b'1'}

10.
conn.hincrby('test','count',3)
4
conn.hget('test','count')
b'4'
```