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’

Len(test1)

outfile = open("test.txt", "w")  
outfile.write("test1 ")  
outfile.close()

with open("test.txt", "wt")as outfile  
 outfile.write(test1)

Example »

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

Ans:-with open (‘test.txt’, ‘rt’) as infile:

test2 = infile.read()

len(test2)

43

test1 == test2

True

1. Create a file called books.csv with these text lines. You must surround a field with quotes if it includes a comma if the fields are separated by commas.

Lynne Truss, "Eats, Shoots, and Leaves" author, book J R R Tolkien, "The Hobbit" Lynne Truss, "Eats, Shoots, and Leaves"

Ans:- text = ‘’’ author, book

J R R Tolkien, The Hobbit

Lynne Truss, "Eats, Shoots, and Leaves"

’’’

With open(‘books.csv’, ‘wt’) as outfile

Outfile.write(text)

73

4. To read books, use the csv module and its DictReader tool.

To the variable books, add a csv file. In books, print the ideals. Was DictReader able to manage the quotes and commas in the title of the second book?

Ans:- with open(‘books.csv’, ‘rt’) as infile

books =csv.DictReader(infile)

for book in books:

print book

{ ‘book’: ‘The Hobbit’, ’ author’: ‘J R R Tolkien’}

{ ‘book’ : ‘Eats, Shoots, and Leaves’,’author’: ‘Lynne Truss’}

5. Use the following lines to build a CSV file called books.csv:

writer, title, and year

Alan Garner, The Weirdstone of Brisingamen, 1960

China Miéville, Perdido Street Station, 2000

thump!

Terry Pratchett published his first novel, Terry Pratchett, in 2005.

Lisa Lutz's The Spellman Files was published in 2007.

Terry Pratchett's Small Gods was published in 1992.

Ans:-text =’’’

writer, title, and year

Alan Garner, The Weirdstone of Brisingamen, 1960

China Miéville, Perdido Street Station, 2000

thump!

Terry Pratchett published his first novel, Terry Pratchett, in 2005.

Lisa Lutz's The Spellman Files was published in 2007.

Terry Pratchett's Small Gods was published in 1992.

‘’’

With open(‘books.csv’, ‘wt’) as outfile

Outfile.write(text)

201

6. Build a SQLite database called books.db and a table called books with the fields title (text), author (text), and year using the sqlite3 module (integer).

Ans:-import sqlite3

db = sqlite3.connect(‘books.db’)

curs =db.cursor()

curs.execute(‘’’ create table book( tittle text, author text,year int)’’’)

<sqlite3.cursor object at 0x1006e3b90>

db.commit()

7. Read the data from books.csv into the book table.

Ans:-import csv

Import sqlite3

Ins\_str =’insert into book values(?,?,?)’

with open(‘books.csv’, ‘rt’) as infile

books =csv.DictReader(infile)

for book in books:

curs.execute(ins\_str,(book[ ‘title’],book[‘author’],book [‘year’]))

<sqlite3.cursor object at 0x1006e3b90>

<sqlite3.cursor object at 0x1006e3b90>

<sqlite3.cursor object at 0x1006e3b90>

<sqlite3.cursor object at 0x1006e3b90>

<sqlite3.cursor object at 0x1006e3b90>

db.commit()

8. From the book table, select and print the title column in alphabetical order.

Ans:-sql = ‘select title from book order by title ascending’

for row in db.execute(sql):

print(row)

OR to print without tuple

for row in db.execute(sql):

print(row[0])

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

Ans:- sql = ‘select \* from book order by year’

for row in db.execute(sql):

print(row)

separate row by comma and space

sql = ‘select \* from book order by year’

for row in db.execute(sql):

print(\*row, sep = ‘. ‘)

10. Link to the sqlite3 database books using the sqlalchemy module.

db, which you generated in exercise 6. Select and print the title column from the book table in alphabetical order, just as in step 8.

Ans:-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)

11. On your device, instal the Redis server and the Python redis library (pip instal redis). Create a test Redis hash with the fields count (1) and name ('Fester Bestertester') in it. To try, print all of the fields.

Ans:-import redis

Conn = redis.Rdis()

Conn.delete(‘test’)

Conn.hmset(‘test’ ,{‘count’ :1, ‘name’ : Fester Bestertester’})

True

Conn.hgetall(‘test’)

{b ‘name’ :b ‘FesterBestertester’, b ‘count’ : b ‘1’}

12. Increase the count in the test field and print it.

Ans:- conn.hincrby(‘test’,’count’,3)

4

Conn.hget(‘test’,’count’)

b ‘4’