What are the four basic steps needed to read and process a file?

A: 1. – open, 2. – read, 3. – do some processing, 4. - close

What code is needed to open a file "infile.txt" for read access and assign it to the file access variable "fi"?

A: fi = open("infile.txt", "r")

After a file is opened and assigned the file access variable "fi", what will be in the variable "indata" after the following code is executed?

indata = fi.read()

A: indata will be a string containing the entire file

A text file has the following data:

Washington Adams Jefferson

After the above file is opened as "fi", what code will display names in single space format?

A: x = fi.read() print(x)

After the above file is opened as "fi", what code will display names in single space format if readlines() is used?

A: x = fi.readlines() for line in x: print(line[:-1])

After a text file is opened and assigned the file access variable "fi", what will be the display output after the following code is executed?

print (fi.read())

A: the entire file will be displayed as it would appear when using Notepad or other text editor

A list of continents:

continents = ['Africa', 'Antarctica', 'Asia', 'Australia', 'Europe', 'North America']

What code will write the names of the continents to a file called 'continents.txt' so that they will appear as lines 1-6 in the file when a text editor like Notepad is used to display the file?

A: f = open('continents.txt', 'w')
for c in continents:
f.write(c + '\n')
f.close()

A text file has the following data:

Washington Adams Jefferson

After the above file is opened as "fi", what will be the display output of the following code?

x = fi.readlines()
for line in x:
 print(line)

A: Washington

Adams

Jefferson

A list of continents:

continents = ['Africa', 'Antarctica', 'Asia', 'Australia', 'Europe', 'North America', 'South America']

How might the data be changed so that the names of the continents can be written to a file called 'continents.txt' so that they will appear as lines 1-7 in the file when a text editor like Notepad is used to display the file? The following code will do the writing.

f = open('continents.txt', 'w')
f.writelines(continents)
f.close()

A: continents = ['Africa\n', 'Antarctica\n', 'Asia\n', 'Australia\n', 'Europe\n', 'North America\n', 'South America\n']

indata = fi.readlines()

A: indata will be a list consisting of one string for each line in the file

```
A list of grocery items purchased is in this list:

items = [['eggs', 2.50], ['Vie de France baguette', 1.95],

['Pinot Noir', 11.0]]

What code is needed to print the receipt as in the previous question, but add a total cost at the bottom labelled "Total" and line it up with the printed items?

A: def receipt (inlist):

total = 0.0

for item in inlist:

print (' {0:20s} ${1:8.2f}'.format(item[0], item[1]))

total += item[1]

print (' {0:20s} $(1:8.2f}'.format("Total", total))
```

Given a list of U.S. presidents 'presidents' and the years they were elected:

What code would convert the above list (assume more than the four shown) into a dictionary called 'prez' using the year elected as key and the name of the president as the value?

```
A: prez = { }
    for p in presidents:
        prez[p[1]] = p[0]
```

Given a dictionary of all U.S. presidents 'prez' and the years they were elected, with the year as key and the name as the value.

Show the code needed to prompt a user for a year and display the name of the president from the dictionary. If the year is not in the dictionary display a message saying 'not found'.

```
A: year = int(input('Enter the year: '))
    if year in prez:
        print(prez[year])
    else:
        print('not found')
```