Homework: Python Data Structures Dataframes

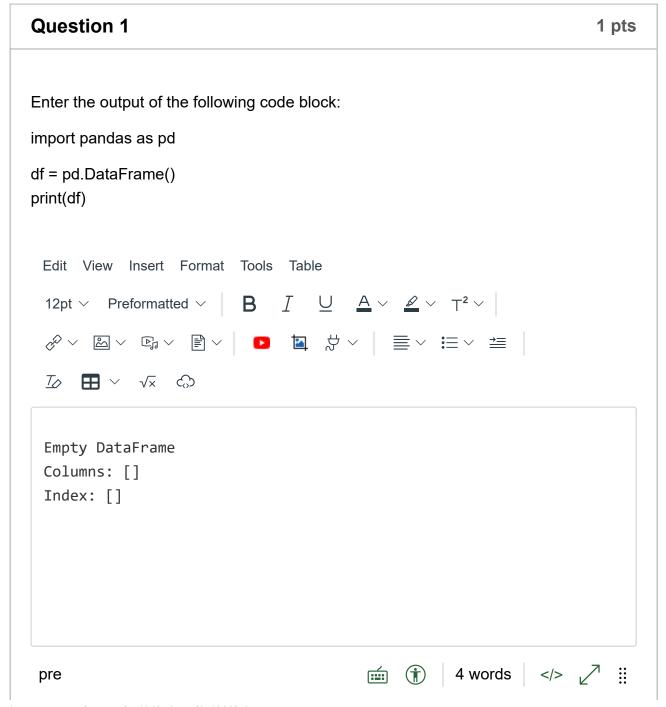
Started: Nov 7 at 4:29pm

Quiz Instructions

Walk through the exercises in the attached pdf, select or enter the appropriate answer and describe the action

PY DS pandas dataframe basic lectures.pdf ↓

(https://unt.instructure.com/courses/77494/files/18752738/download?download frd=1)



Question 2 1 pts

Describe the action being executed by the former code block:

First line is telling python to bring the pandas library as "pd". This is the standard way to reference pandas. This means that we will now reference this library in our code as pd.function.

Second line sets variable "df" as a dataframe with no data, index or columns.

Third line actions to print our dataframe "df" which in this case has no data so the number of columns and index is blank/0.

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Question 3 1 pts

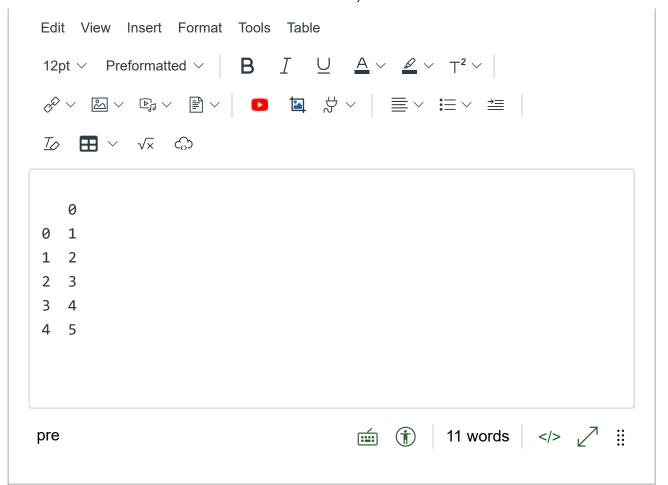
Enter the output of the following code block:

import pandas as pd

aList = [1,2,3,4,5]

df = pd.DataFrame(aList)

print(df)



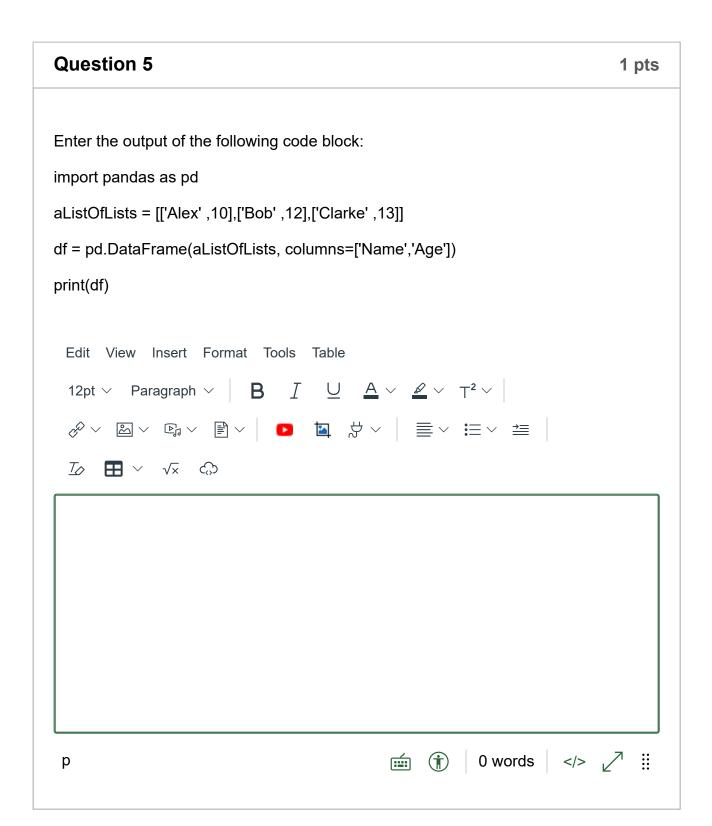


Describe the action being executed by the former code block:

First line is telling python to bring the pandas library as "pd". This is the standard way to reference pandas. This means that we will now reference this library in our code as pd.function.

Second line we identify out variable aList as a list "[1,2,3,4,5]".

We then call our dataframe "df" using our variable "alist"



Question 6 1 pts Describe the action being executed by the former code block: Edit View Insert Format Tools Table 12pt \vee Paragraph \vee B I $\underline{\cup}$ $\underline{A} \vee \underline{\mathscr{D}} \vee \mathsf{T}^2 \vee$ p



Question 8	1 pts
Describe the action being executed by the former code block:	ı pu

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Enter the output of the following code block:
import pandas as pd

aDict = {'Name':['Tom', 'Jack', 'Steve', 'Ricky'], 'Age':[28,34,29,42]}

df = pd.DataFrame(aDict, index=['rank','rank2','rank3','rank4'])

print(df)

Question 10 1 pts

Describe the action being executed by the former code block:



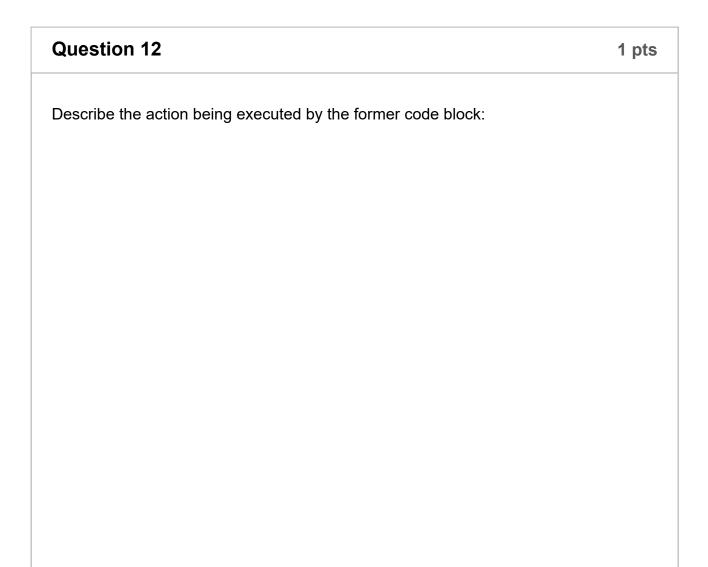
Enter the output of the following code block:

import pandas as pd

```
aDictOfSeries = {'one' : pd.Series([1, 2, 3], index=['a', 'b', 'c']), 'two' : pd.Series([1, 2, 3, 4], index=['a', 'b', 'c', 'd'])}

df = pd.DataFrame(aDictOfSeries)

print(df)
```



Question 13 1 pts

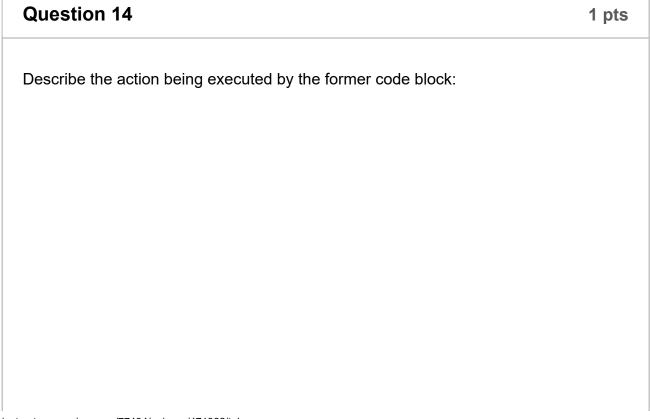
Enter the output of the following code block:

import pandas as pd

aDictOfSeries = {'one' : pd.Series([1, 2, 3], index=['a', 'b', 'c']),

'two': pd.Series([1, 2, 3, 4], index=['a', 'b', 'c', 'd'])}



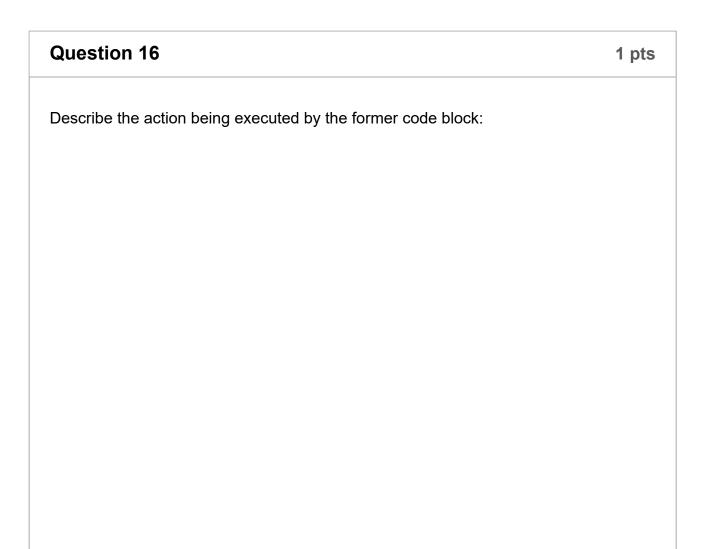


Question 15 1 pts

Enter the output of the following code block:

```
import pandas as pd
```

```
aDictOfSeries = {'one' : pd.Series([1, 2, 3], index=['a', 'b', 'c' ]),
'two': pd.Series([1, 2, 3, 4, ], index=['a', 'b', 'c', 'd'])}
df = pd.DataFrame(aDictOfSeries)
df['three']=pd.Series([10,20,30],index=['a','b','c'])
print(df)
df['fout'] = df['one'] + df['three']
print('\n')
print(df)
```



Question 17 1 pts

Enter the output of the following code block:

import pandas as pd

aDictOfSeries = {'one' : pd.Series([1, 2, 3], index=['a', 'b', 'c']),

'two': pd.Series([1, 2, 3, 4], index=['a', 'b', 'c', 'd']),

'three': pd.Series([10,20,30], index=['a', 'b', 'c'])}

```
df = pd.DataFrame(aDictOfSeries)
print(df)
print('\n')

del(df['one'])
print(df)
print('\n')

df.pop('two')
print(df)
```

Question 18 1 pts

Describe the action being executed by the former code block:

Question 19 1 pts

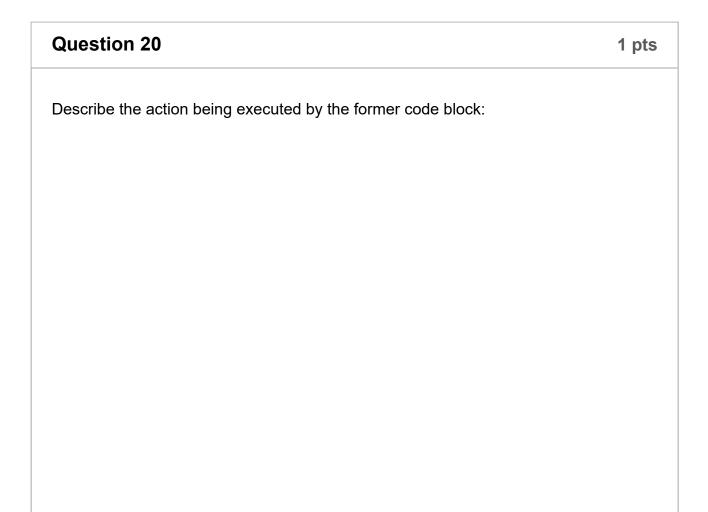
Enter the output of the following code block:

import pandas as pd

aDictOfSeries = {'one' : pd.Series([1, 2, 3], index=['a', 'b', 'c']), 'two' : pd.Series([1, 2, 3, 4], index=['a', 'b', 'c', 'd'])}

df = pd.DataFrame(aDictOfSeries)

print(df.loc['b'])



Question 21 1 pts

Enter the output of the following code block:

import pandas as pd

aDictOfSeries = {'one' : pd.Series([1, 2, 3], index=['a', 'b', 'c']),

'two': pd.Series([1, 2, 3, 4], index=['a', 'b', 'c', 'd'])}

df = pd.DataFrame(aDictOfSeries)

print(df[2:4])

Question 22 1 pts

Describe the action being executed by the former code block:

Question 23 1 pts

Enter the output of the following code block:

import pandas as pd

print(df)

```
df = pd.DataFrame([[1,2], [3,4]], columns = ['a','b'])
df2 = pd.DataFrame([[5,6], [7, 8]], columns = ['a','b'])
df = df.append(df2)
```

Question 24 1 pts

Describe the action being executed by the former code block:

Question 25

Enter the output of the following code block:

import pandas as pd

```
df = pd.DataFrame([[1, 2],[3, 4]], columns = ['a','b'])
df2 = pd.DataFrame([[5, 6], [7, 8]], columns = ['a','b'])
```

df = df.append(df2)

df = df.drop(0)

print(df)

Question 26			1 pts
Describe the action l	being executed by the former	code block:	

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Quest	ion 27	14 pts			
Upload the Jupyter Notebook code file (saved as pdf, word or html) associated with this exercise					
Upload	Choose a File				

No new data to save. Last checked at 5:24pm

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