## Congratulations! You passed!

Grade received 100% To pass 80% or higher

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1/1 point

## Quiz 2

Latest Submission Grade 100%

1. For the following code, which of the following statements will **not** return True?

import pandas as pd
sdata = {'Ohio': 35000, 'Texas': 71000, 'Oregon': 16000, 'Utah': 5000}
obj1 = pd.Series(sdata)
states = ['California', 'Ohio', 'Oregon', 'Texas']
obj2 = pd.Series(sdata, index=states)
obj3 = pd.isnull(obj2)

- 2 math.isnan(obj2['California'])
- O 1 x = obj2['California']
  2 obj2['California'] != x
- O 1 obj3['California']
- obj2['California'] == None
- **⊘** Correct

The value of obj2['California'] is nan which is not the same as None, so this will return False

1 import pandas as pd
2 d = {'1': 'Alice','2': 'Bob','3': 'Rita','4': 'Molly','5': 'Ryan'}
3 S = pd.Series(d)

1 / 1 point

In the above python code, the keys of the dictionary **d** represent student ranks and the value for each key is a student name. Which of the following can be used to extract rows with student ranks that are lower than or equal to 3?

- O S.iloc[0:2]
- O S.loc[0:2]
- O S.loc[0:3]
- S.iloc[0:3]
- **⊘** Correct

S.iloc[i:j] can be used to retrieve Series rows from indices i to j-1

3. Suppose we have a DataFrame named df. We want to change the original DataFrame df in a way that all the column names are cast to upper case. Which of the following expressions is incorrect to perform the same?

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- O df = df.rename(mapper = lambda x: x.upper(), axis = 1)
- O df.rename(mapper = lambda x: x.upper(), axis = 1, inplace = True)
- df.rename(mapper = lambda x: x.upper(), axis = 1)
- O df = df.rename(mapper = lambda x: x.upper(), axis = 'column')

## **⊘** Correct

This is incorrect because the rename method will return a new DataFrame by default. We have to pass the result to our original DataFrame **df** or set the inplace parameter to 'True'.

4. 1/1 point

gre score toefl score

Serial No.

1	337	118
2	324	107
3	316	104
4	322	110
5	314	103

For the given DataFrame **df** we want to keep only the records with a **toefl score** greater than 105. Which of the following will **not** work?

- O df.where(df['toefl score'] > 105).dropna()
- O df[df['toefl score'] > 105]
- (df.where(df['toefl score'] > 105)
- O All of these will work
- **⊘** Corre

This will not work as **df.where()** will not drop any data we don't want, it will just set their values to **nan**.

5. Which of the following can be used to create a DataFrame in Pandas?

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- O 2D ndarray
- O Python dict
- All of these work
- O Pandas Series object
- **⊘** Correct

All of these can be used to create a DataFrame in Pandas

**6.** Which of the following is an **incorrect** way to **drop** entries from the Pandas DataFrame named **df** shown below?

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	one	two	three	four
Ohio	0	1	2	3
Colorado	4	5	6	7
Utah	8	9	10	11
New York	12	13	14	15

- O df.drop('Ohio')
- O df.drop(['Utah', 'Colorado'])
- df.drop('two')
- O df.drop('one', axis = 1)
  - ✓ Correct

This is an incorrect way to drop values from the column named 'two' because the axis has not been specified as 1 (representing 'columns') and the default value of axis is 0. It would yield the following error: KeyError: '['two'] not found in axis'.

 $\textbf{7.} \ \ \text{For the Series $\textbf{s1}$ and $\textbf{s2}$ defined below, which of the following statements $\textbf{will give an error}$?}$ 

1/1 point

```
1 import pandas as pd
2 s1 = pd.Series({1: 'Alice', 2: 'Jack', 3: 'Molly'})
3 s2 = pd.Series({'Alice': 1, 'Jack': 2, 'Molly': 3})
```

s2.loc[1]	
) s2[1]	
S1.loc[1]	
⊘ Correct     There is no index of value 1 in s2, hence this will give an error.	
Which of the following statements is <b>incorrect</b> ?	
We can use <b>s.iteritems()</b> on a <b>pd.Series</b> object <b>s</b> to iterate on it.	
If <b>s</b> and <b>s1</b> are two pd. Series objects, we cannot use <b>s.append(s1)</b> to directly append <b>s1</b> to the series <b>s</b>	existing
loc and iloc are two useful and commonly used Pandas methods.	
If <b>s</b> is a <b>pd.Series</b> object, then we can use <b>s.loc[label]</b> to get all data where the index is equal to	to label.
Correct loc and iloc are attributes of pandas. Series object, not methods.	
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gre score toefl score Serial No.	
Serial No.	
Serial No.  1 337 118	
1     337     118       2     324     107	
Serial No.         1       337       118         2       324       107         3       316       104	

- (df['toefl score'] > 105) & (df['toefl score'] < 115)</li>
- $\bigcirc \ \, \mathsf{df}[\mathsf{df}[\mathsf{'toefl\,score'}].\mathsf{gt}(\mathsf{105})\,\&\,\mathsf{df}[\mathsf{'toefl\,score'}].\mathsf{lt}(\mathsf{115})]$
- O df[(df['toefl score'].isin(range(106, 115)))]

## **⊘** Correct

This will just return a boolean mask of True's and False's instead of filtering the correct rows.

10. Which of the following is the correct way to extract all information related to the student named Alice from the DataFrame **df** given below:

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(Major)	Name	Age	Gender
Mathematics	Alice	20	F
Sociology	Jack	22	М

O df['Mathematics']

O df.iloc['Mathematics']

df.T['Mathematics']

O df['Alice']

**⊘** Correct

This will correctly extract Alice's data as 'Mathematics' would be a column in df.T and column names can be passed as a key to retrieve the contents of the entire column, i.e. Alice's information in this case