

Hello Shiyun Tang! You scored 7 out of 10.

Please click on the feedback to view your response.

# Question 1

Feedback: 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 informaion in this case

### Question:

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

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

0	df['Alice']
0	df['Mathematics']
0	df.iloc['Mathematics']
•	df.T['Mathematics']

# Question 2

Correct answer:

Score:

0/1

(df['toefl score'] > 105) & (df['toefl score'] < 115)

### **Explanation:**

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

### Question:

	gre score	toen score
Serial No.		
1	337	118
2	324	107
3	316	104
4	322	110
5	314	103

For the given DataFrame df shown above, we want to get all records with a toefl score greater than 105 but smaller than 115. Which of the following expressions is **incorrect** to perform the same?

- df[df['toef1 score'].gt(105) & df['toef1 score'].lt(115)]
- df[(df['toefl score'].isin(range(106, 115)))]
- (df['toefl score'] > 105) & (df['toefl score'] < 115)
- df[(df['toef1 score'] > 105) & (df['toef1 score'] < 115)]</pre>

# Question 3

Feedback: loc and iloc are attributes of pandas. Series object, not methods.

Score:

1/1

#### Question:

Which of the following statements is **incorrect**?

- If s is a pd. Series object, then we can use s. loc[label] to get all data where the index is equal to label.
- We can use s. iteritems() on a pd. Series object s to iterate on it.
- O If s and s1 are two pd.Series objects, we cannot use s. append (s1) to directly append s1 to the existing series s
- 10c and i10c are two useful and commonly used Pandas methods.

# Question 4

Feedback: There is no index of value 1 in s2, hence this will give an error.

Score:

1/1

### Question:

For the Series s1 and s2 defined below, which of the following statements will give an error?

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

- s2. iloc[1]
- O s2[1]
- S1. loc[1]
- s2. loc[1]

# Question 5

Score:

1/1

**Feedback**: 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'.

### Question:

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

	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

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

# Question 6

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

Score:

1/1

### Question:

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

Pandas Series object

0	2D ndarray
0	Python dict
•	All of the above

# Question 7

Correct answer: Score:

df.where(df['toefl score'] > 105)

# 0/1

### **Explanation:**

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

### Question:

#### 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?

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

### Question 8

Correct answer: Score:

df.rename(mapper = lambda x: x.upper(), axis = 1)

0/1

### **Explanation:**

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'.

#### Question:

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?

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

### Question 9

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

Score:

1/1

### Question:

```
'5': 'Ryan'
}
S = pd. Series(d)
```

In the above python code, the keys of the dictionary derepresent 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?

- S. loc[0:3]
- S. loc[0:2]
- S. iloc[0:2]
- S. iloc[0:3]

### Question 10

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

Score:

1/1

### Question:

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)
```

- O obj3['California']
- import math
  math.isnan(obj2['California'])
- x = obj2['California']
  obj2['California'] != x



obj2['California'] == None