

How can I fix the error “First argument must be an iterable of pandas objects, you passed an object of type ‘DataFrame’”?

Authored by
stats writer

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The error "First argument must be an iterable of pandas objects, you passed an object of type 'DataFrame'" occurs when a non-iterable object, such as a DataFrame, is passed as the first argument in a function that requires an iterable of pandas objects. To fix this error, you will need to ensure that the first argument is a proper iterable, such as a list or a tuple, containing pandas objects such as DataFrames or Series. Additionally, it is important to check the documentation of the function to ensure that the correct data type is being passed as the first argument.

Fix: first argument must be an iterable of pandas objects, you passed an object of type "DataFrame"

One common error you may encounter when using Python is:

TypeError: first argument must be an iterable of pandas objects, you passed an object of type "DataFrame"

This error usually occurs when you attempt to use the `concat()` function to append two pandas DataFrames together without wrapping the DataFrame names in brackets.

The following example shows how to resolve this error in practice.

How to Reproduce the Error

Suppose we have the following two pandas

DataFrames:

```
import pandas as pd
```

```
#create first DataFrame
```

```
df1 = pd.DataFrame({'x': ,  
'y': ,  
'z': })
```

```
print(df1)
```

```
x y z
```

```
0 25 5 8
```

```
1 14 7 8
```

```
2 16 7 10
```

```
3 27 5 6
```

```
4 20 7 6
```

```
5 15 6 9
```

```
6 14 9 6
```

```
#create second DataFrame
```

```
df2 = pd.DataFrame({'x': ,  
'y': ,  
'z': })
```

```
print(df2)
```

```
x y z
0 58 14 9
1 60 22 12
2 65 23 19
```

Now suppose we attempt to use the `concat()` function to append the two DataFrames into one DataFrame:

```
#attempt to append two DataFrames together
combined = pd.concat(df1, df2, ignore_index=True)
```

```
#view final DataFrame
print(combined)
```

TypeError: first argument must be an iterable of pandas objects, you passed an object of type "DataFrame"

We receive an error because we failed to wrap the DataFrame names in brackets within the `concat()` function.

How to Fix the Error

The way to resolve this error is to simply wrap the DataFrame names in a bracket within the `concat()`

function as follows:

```
#append two DataFrames together  
combined = pd.concat(, ignore_index=True)
```

```
#view final DataFrame  
print(combined)
```

```
x y z  
0 25 5 8  
1 14 7 8  
2 16 7 10  
3 27 5 6  
4 20 7 6  
5 15 6 9  
6 14 9 6  
7 58 14 9  
8 60 22 12  
9 65 23 19
```

Notice that we're able to successfully combine the two DataFrames without any error this time.

The following tutorials explain how to fix other common

errors in Python:

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