week1_assessment

June 28, 2020

You will use the values of what you find in this assignment to answer questions in the quiz that follows. You may want to open this notebook to be displayed side-by-side on screen with this next quiz.

1. Write a function that inputs an integers and returns the negative

2. Write a function that inputs a list of integers and returns the minimum value

Challenge problem: Write a function that take in four arguments: lst1, lst2, str1, str2, and returns a pandas DataFrame that has the first column labeled str1 and the second column labaled str2, that have values lst1 and lst2 scaled to be between 0 and 1.

For example

```
lst1 = [1, 2, 3]
1st2 = [2, 4, 5]
str1 = 'one'
str2 = 'two'
my_function(lst1, lst2, str1, str2)
   should return a DataFrame that looks like:
                                       one two
                                    0
                                      0
                                             0
                                    1 .5
                                             .666
                                    2 1
                                             1
In [15]: import pandas as pd
         import numpy as np
         def my_function(lst1, lst2, str1, str2):
             df = pd.DataFrame({str1: lst1, str2: lst2})
             return df
         my_function([1, 2, 3],[2, 4, 5],'one','two')
Out[15]:
            one
                 two
```

import pandas as pd

lst1 = np.random.randint(-234, 938, 100)

lst2 = np.random.randint(-522, 123, 100) str1 = 'one'

str2 = 'alpha'

1

2

1

2

4

def my_function(lst1, lst2, str1, str2):
 df = pd.DataFrame({str1: lst1, str2: lst2})
 return df

my_function(np.random.randint(-234, 938, 100),np.random.randint(-522, 123, 100),'one'

```
Out[18]:
                   alpha
             one
              51
                    -494
         0
             218
         1
                    -140
         2 -216
                    -398
         3
             790
                      38
             516
                    -288
```

```
92 381
         -510
93 653
         22
94 718
         -216
95 849
         -187
96
   43
         -410
         -285
97 321
         56
98 321
99 -199
         -253
```

[100 rows x 2 columns]