Raul Rodriguz

```
'''Exercise 1
       Given the DataFrame of slide 241, ask user to enter the names of the rows, i.e., indices.
       You can use: len(grades) to get the number of rows of the DataFrame. In addition, using the
       sort_index() method, ask user whether they wish to sort by rows or by columns and whether to
       sort in ascending or descending order (do not use any if-else statements)'''
       import pandas as pd
       grades_dict={'Wally':[87,96,70],'Eva':[100,97,90],
       'Sam': [94,77,90], 'Katie': [100,81,82],
       'Bob': [83,65,85]}
       grades = pd.DataFrame(grades_dict)
       grades.index=[input("Enter name for row: ")for i in range(len(grades))]
       print(grades.sort_index(axis=int(input("Enter 0 for row sorting, enter 1 for column sorting: ")),
       ascending=bool(input("Enter True for ascending order, leave blank for descending order: "))))
 14
PROBLEMS
                       DEBUG CONSOLE
                                                     JUPYTER
                                         TERMINAL
raulrodriguez@Rauls-MacBook-Air WorkSpaceVSPython % /usr/local/bin/python3 /Users/raulrodriguez/Documents/Wo
Enter name for row: t1
Enter name for row: t2
Enter name for row: t3
Enter 0 for row sorting, enter 1 for column sorting: 0
Enter True for ascending order, leave blank for descending order:
Wally Eva Sam Katie Bob
    Wally Eva Sam
                              85
65
t3
        70
            90
                  90
                         82
t2
        96
             97
                  77
                         81
                  94
t1
       87
            100
                         100
                               83
       Similarly to Ex.1, use the sort_values() method and ask user to enter values for all its three
       arguments
       Note: If you sort by rows, i.e., axis=0, the by argument has to be followed by the name of a
       student; if you sort by columns, i.e., axis=1, the by argument has to be followed by the name of
       the assignment'''
       import pandas as pd
       grades_dict={'Wally':[87,96,70],'Eva':[100,97,90],
       'Sam': [94,77,90], 'Katie': [100,81,82],
       'Bob': [83,65,85]}
       grades = pd.DataFrame(grades_dict)
       grades.index=[input("Enter name for row: ")for i in range(len(grades))]
       print(grades.sort_values(axis=int(input("0 for row sorting, 1 for column sorting: ")),
       ascending=bool(input("Enter True for ascending order, leave blank for descending order: ")),
       by=input("Enter name if axis=0, enter assignment if axis=1: ")))
 16
PROBLEMS
            OUTPUT
                      DEBUG CONSOLE
                                        TERMINAL
                                                    JUPYTER
nts/WorkSpaceVSPython/Lab9_2.pyaulrodriguez/Docume2 raulrodriguez@Rauls-MacBook-Air WorkSpaceVSPython % /usr/local/bin/python3 /Users/raulrodriguez/Documents/Work
Enter name for row: t1
Enter name for row: t2
Enter name for row: t3
0 for row sorting, 1 for column sorting: 0
Enter True for ascending order, leave blank for descending order:
Enter name if axis=0, enter assignment if axis=1: Katie
           Eva Sam
                     Katie Bob
    Wally
       87
           100
t1
                        100
                              83
t3
       70
            90
                 90
                         82
                              85
            97
                              65
       96
                  77
                         81
```

