

Sorting by Index Values

The screenshot shows a web browser window with a DataCamp course page. The page title is 'Sorting by index values | Python'. The URL is 'campus.datacamp.com/courses/data-manipulation-with-pandas/slicing-and-indexing-dataframes?ex=5'. The page is divided into two main sections: 'Exercise' and 'Instructions'. The 'Exercise' section contains a description of the task: 'Previously, you changed the order of the rows in a DataFrame by calling .sort_values(). It's also useful to be able to sort by elements in the index. For this, you need to use .sort_index(). pandas is loaded as pd. temperatures_ind has a multi-level index of country and city, and is available.' The 'Instructions' section lists three tasks: 'Sort temperatures_ind by the index values.', 'Sort temperatures_ind by the index values at the "city" level.', and 'Sort temperatures_ind by ascending country then descending city.' Below the instructions is a 'Take Hint (-30 XP)' button. The right side of the interface shows a code editor with a Python script named 'script.py' containing the following code:

```
1 # Sort temperatures_ind by index values
2 print(____)
3
4 # Sort temperatures_ind by index values at the city level
5 print(____)
6
7 # Sort temperatures_ind by country then descending city
8 print(____)
```

 Below the code editor is an 'IPython Shell' section with a 'Slides' tab and a 'Run Code' button. The bottom of the browser window shows the Windows taskbar with the date '25/11/2024' and time '16:59'.

Previously, you changed the order of the rows in a DataFrame by calling `.sort_values()`. It's also useful to be able to sort by elements in the index. For this, you need to use `.sort_index()`.

pandas is loaded as `pd`. `temperatures_ind` has a multi-level index of country and city, and is available.

Final Answer

```
# Sort temperatures_ind by index values
print(temperatures_ind.sort_index())
```

```
# Sort temperatures_ind by index values at the city level
print(temperatures_ind.sort_index(level="city"))
```

```
# Sort temperatures_ind by ascending country then descending city
print(temperatures_ind.sort_index(level=["country", "city"],
ascending=[True, False]))
```