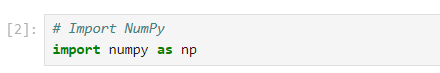
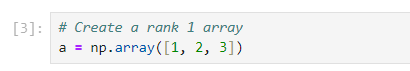
LAB Logbook

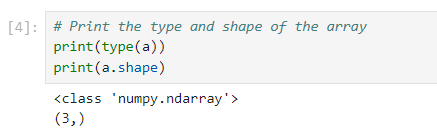
Lab 1

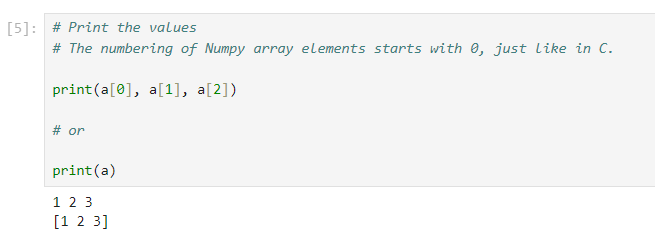
This lab included practice tasks for basic operations with NumPy, including vector creation, reshaping arrays, copying data, and using the shape attribute to confirm the structure of arrays. These are fundamental skills for working with numerical data in Python. Key aspects covered included:

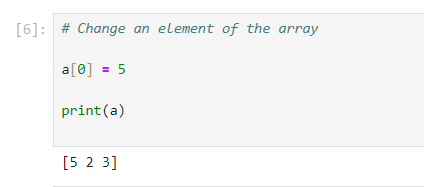
* Array creation and manipulation.
* Matrix operations.
* Array attributes and indexing.
* Stacking and tiling.

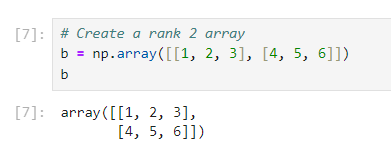


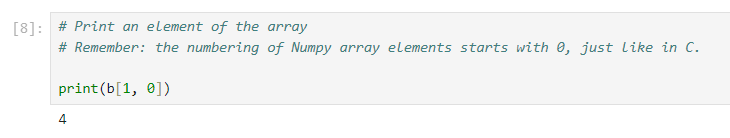


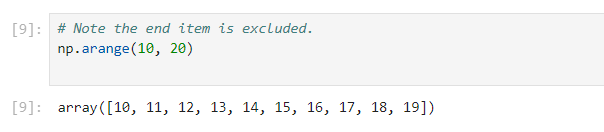


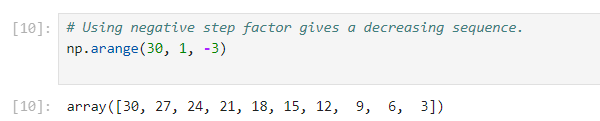


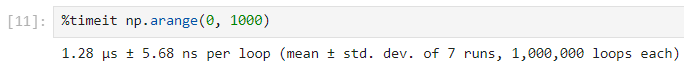


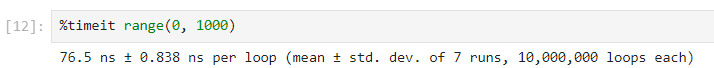


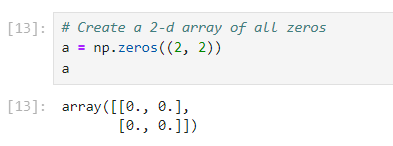


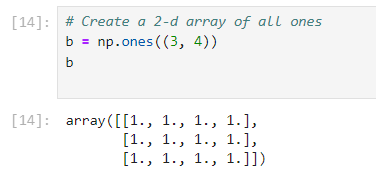


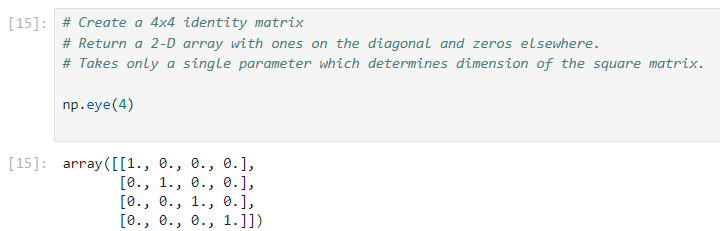


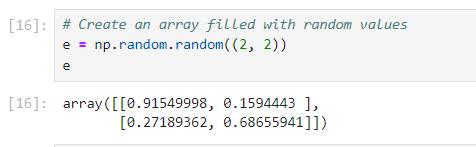


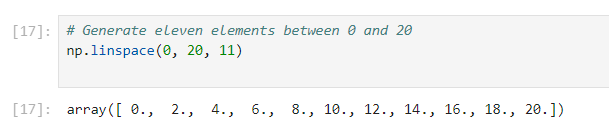


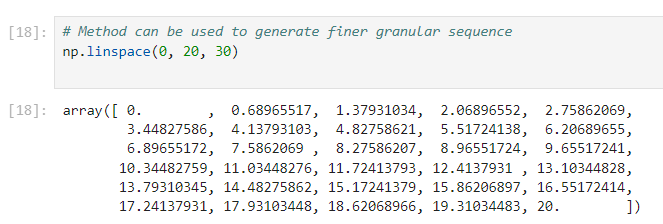


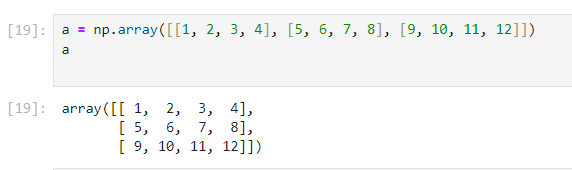


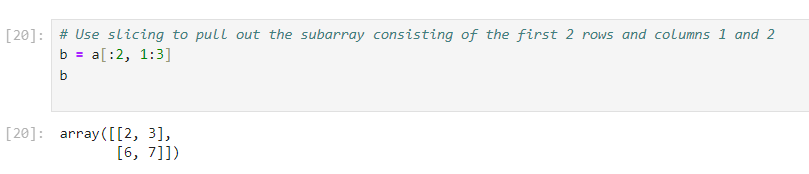


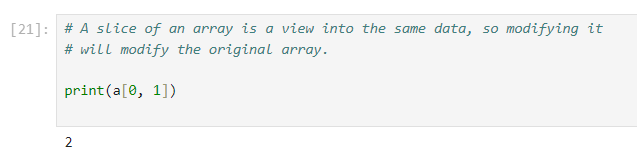


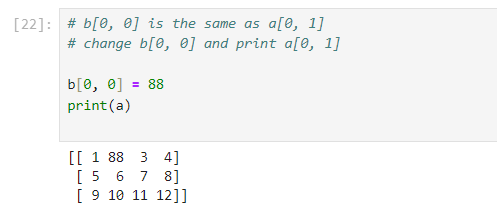


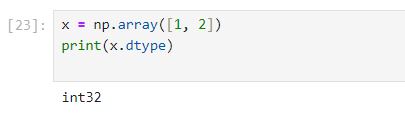




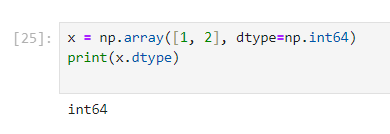


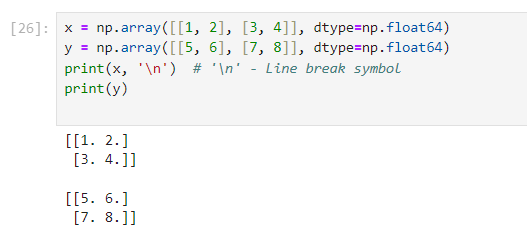


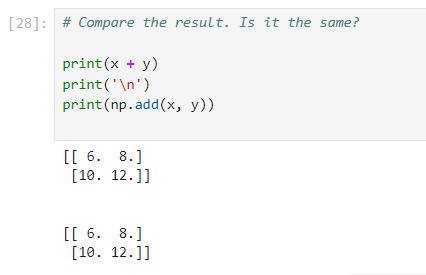


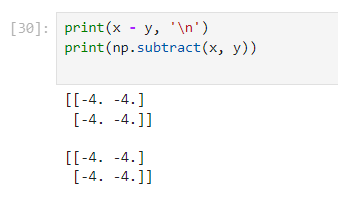


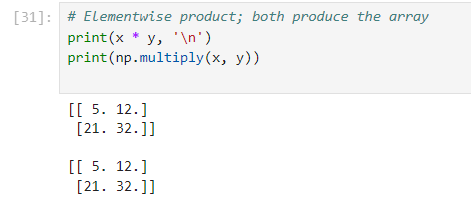


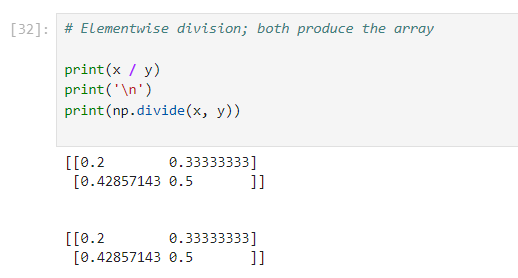


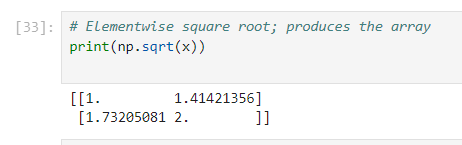


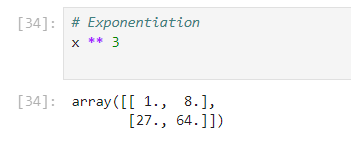


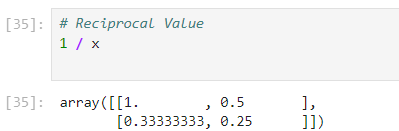


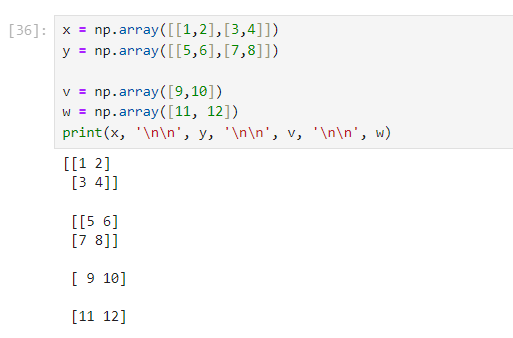


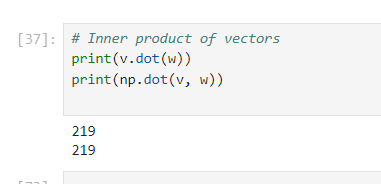




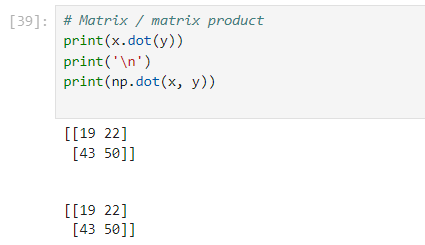


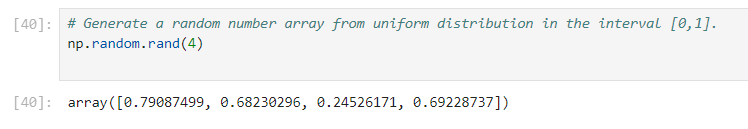


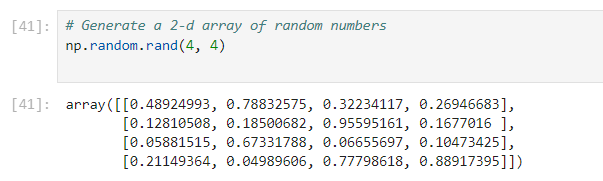


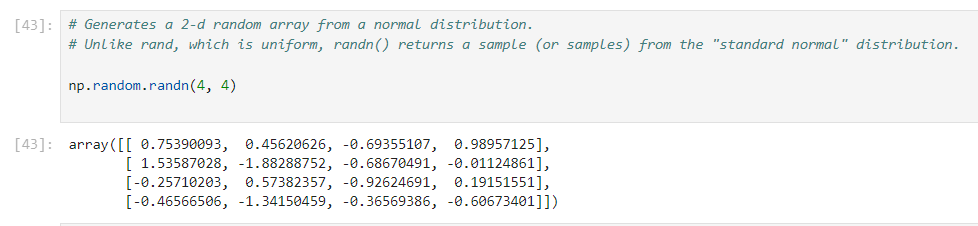


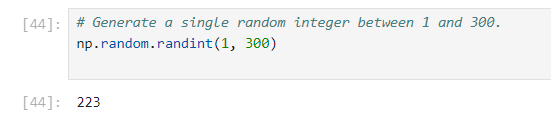


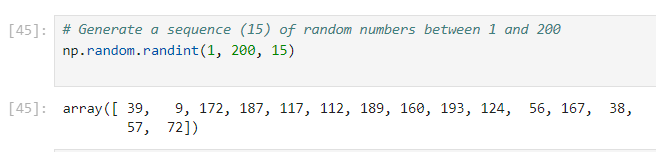


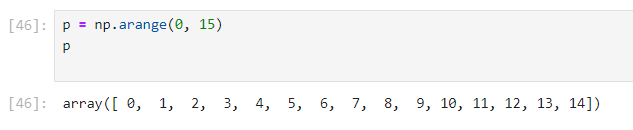


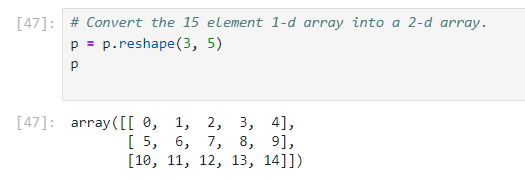


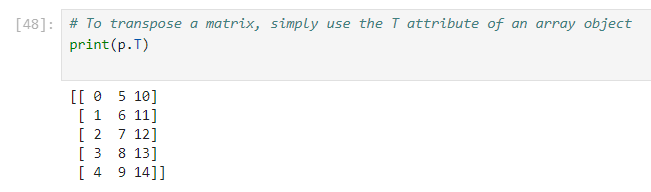




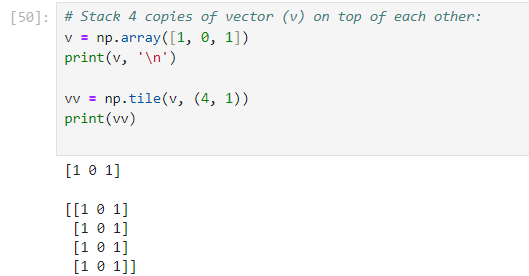


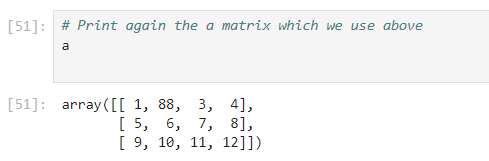


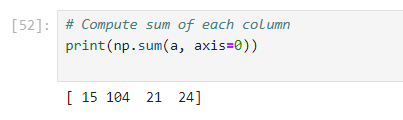


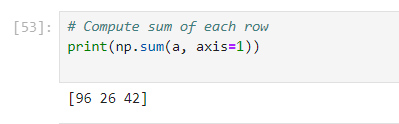


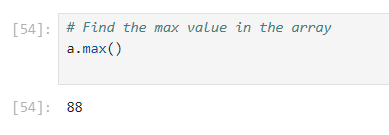


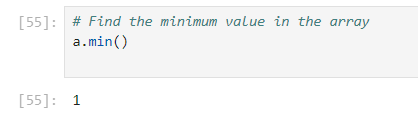


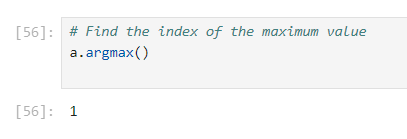


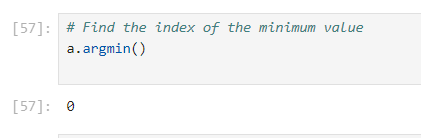


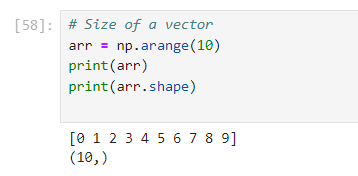


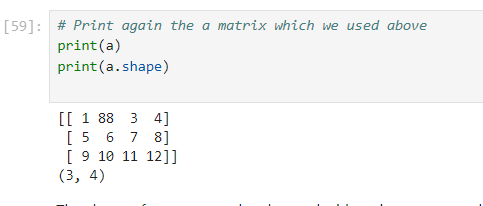


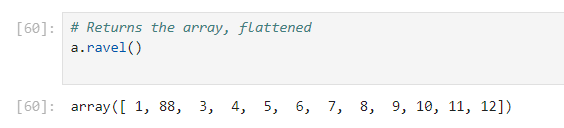


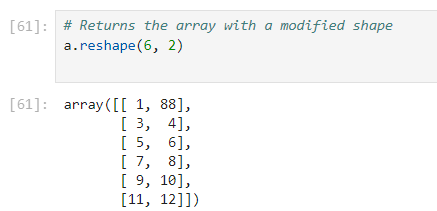


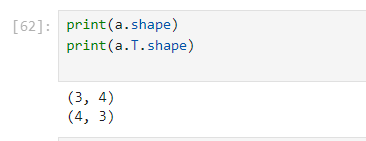


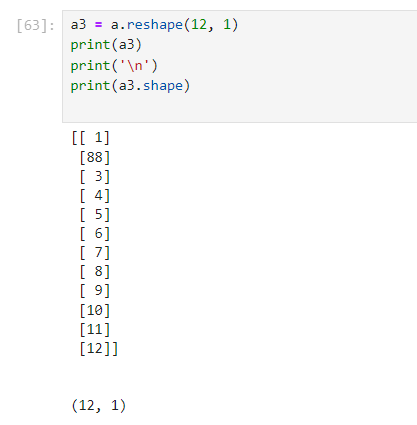












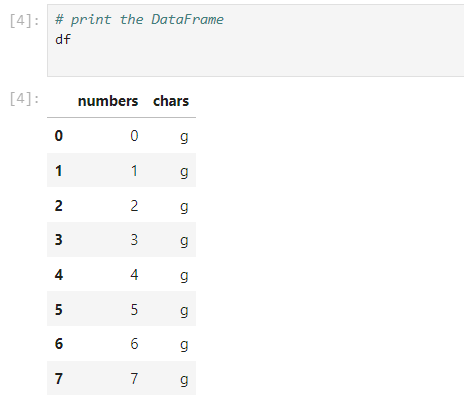
**Assignment:**

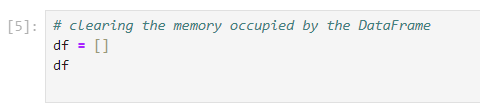


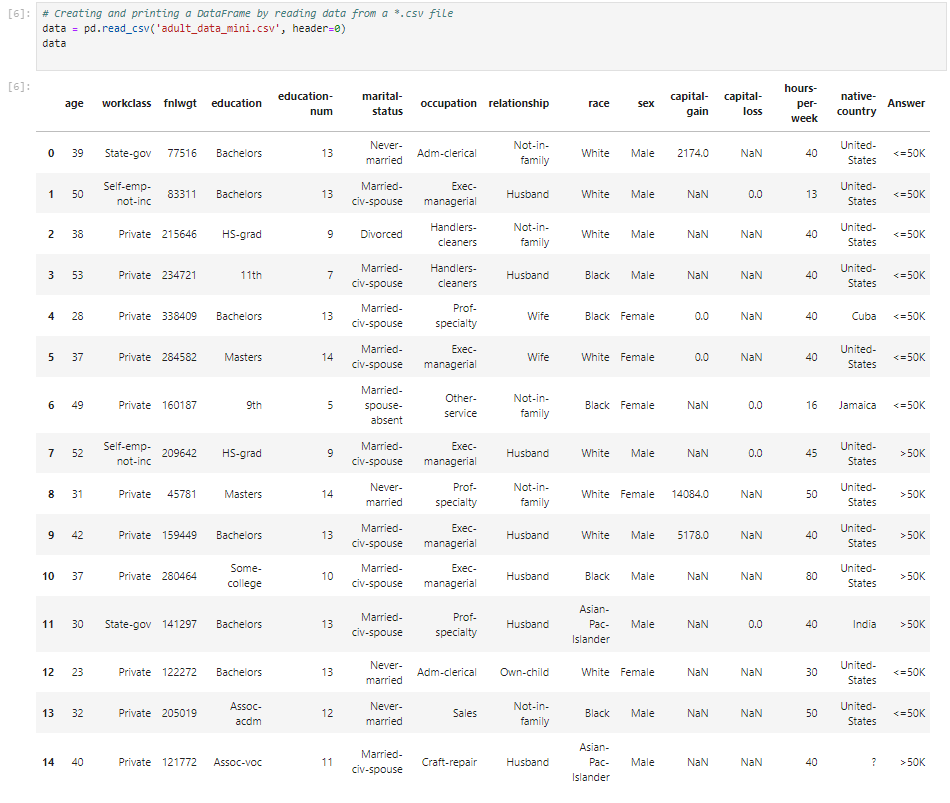
Lab 2

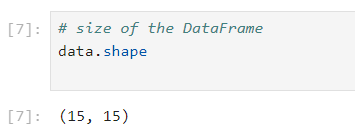


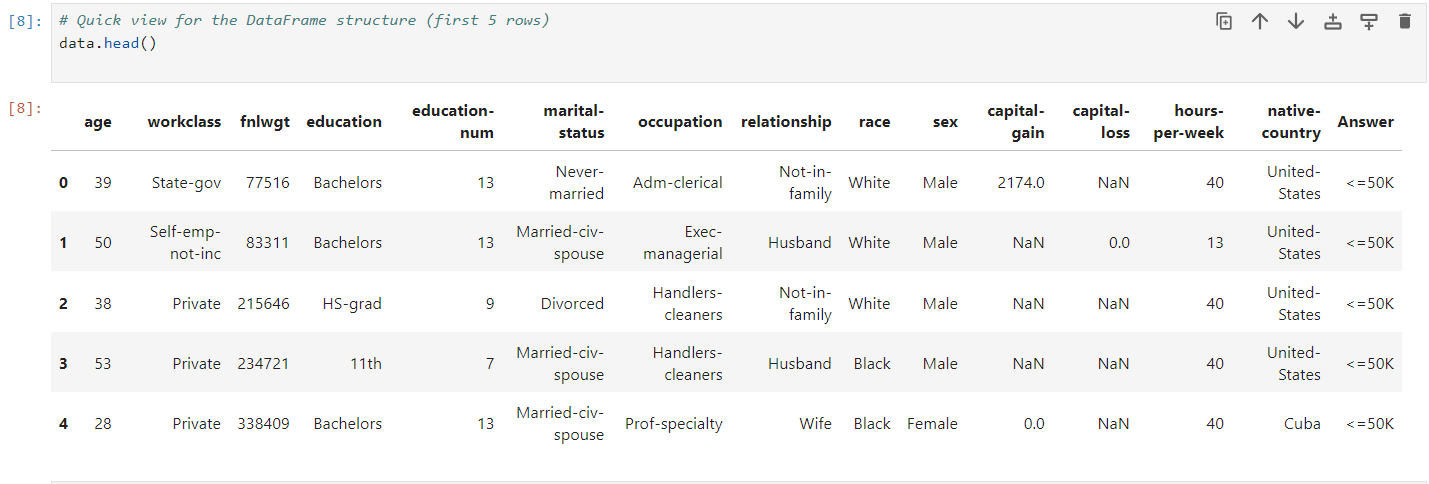


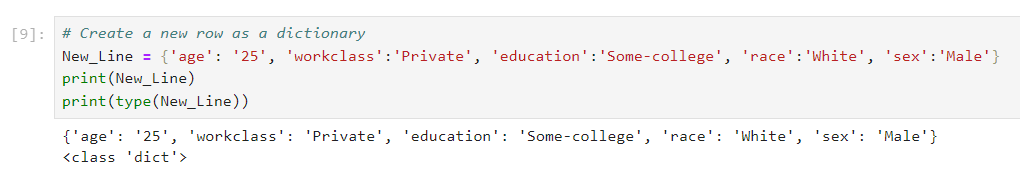


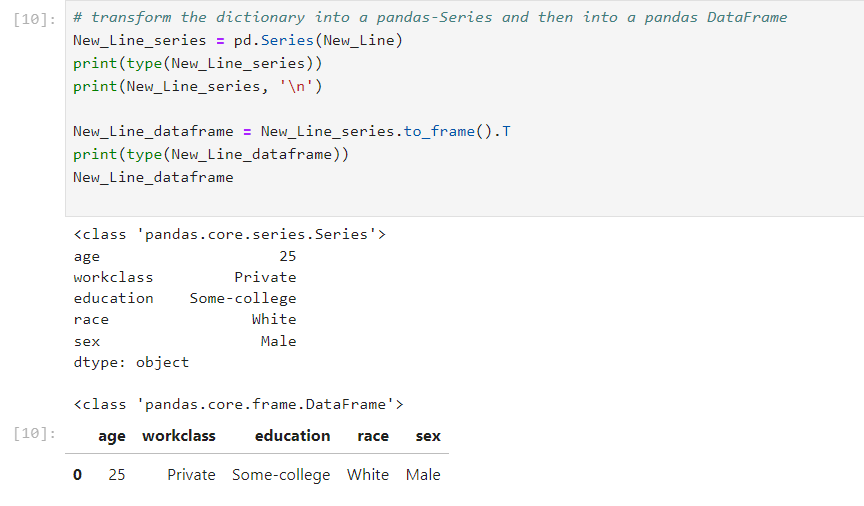


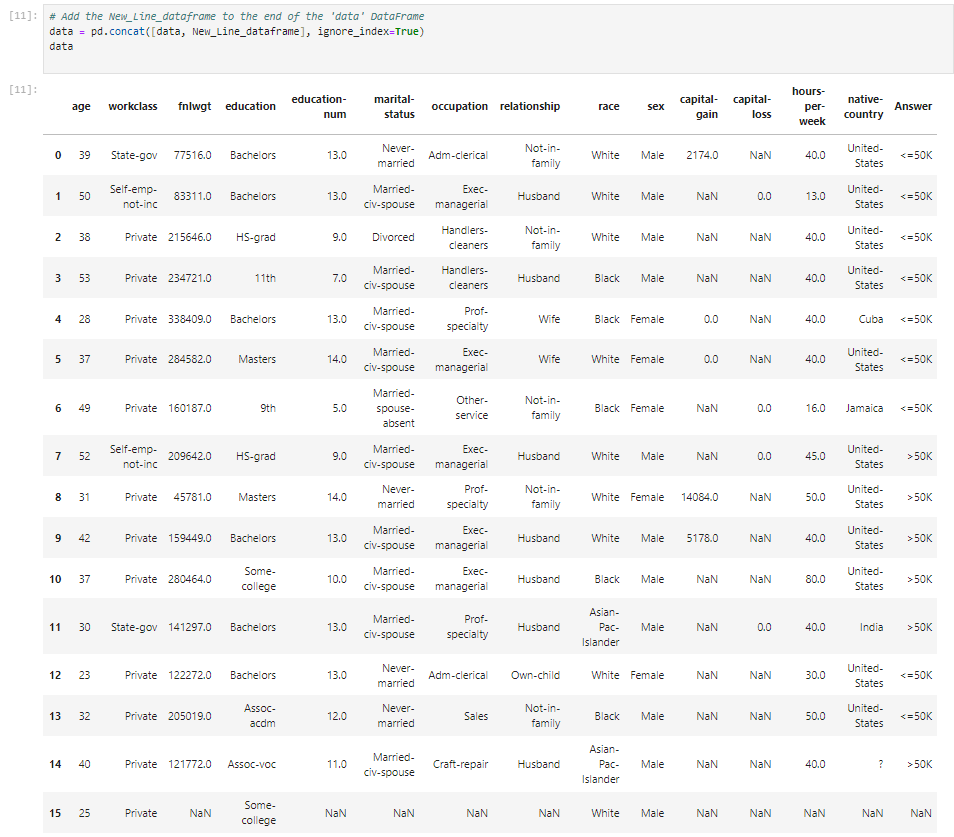


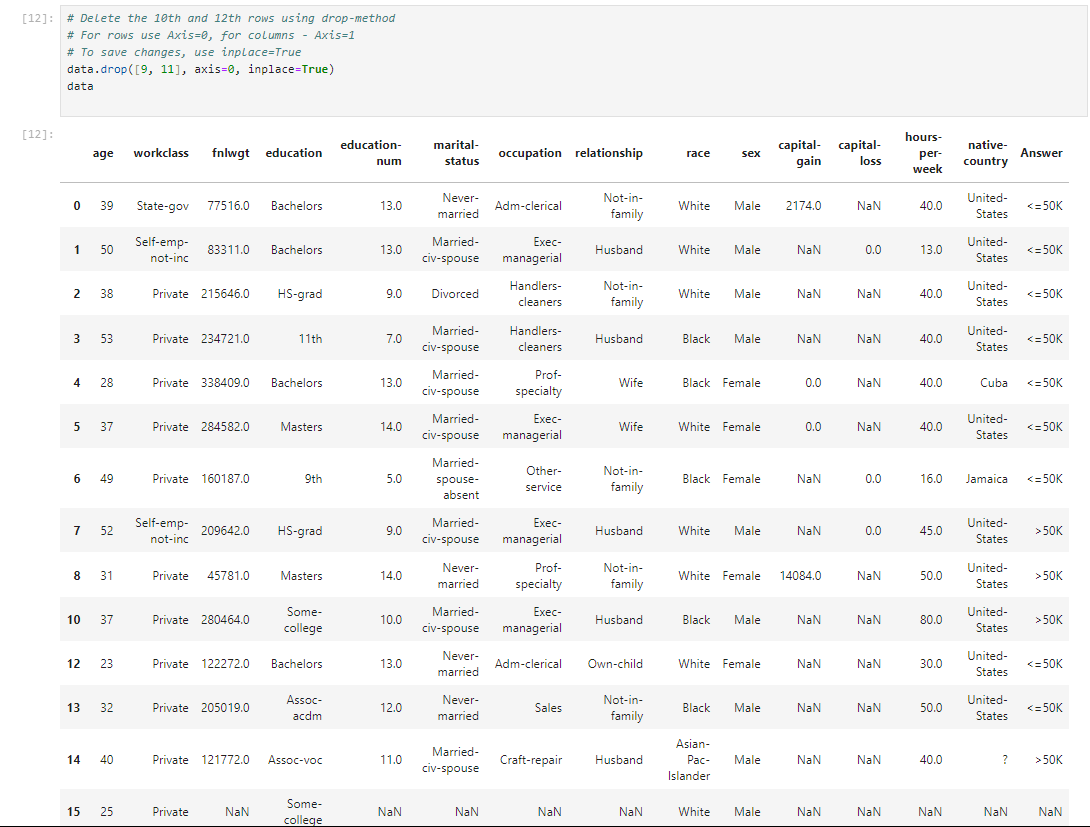


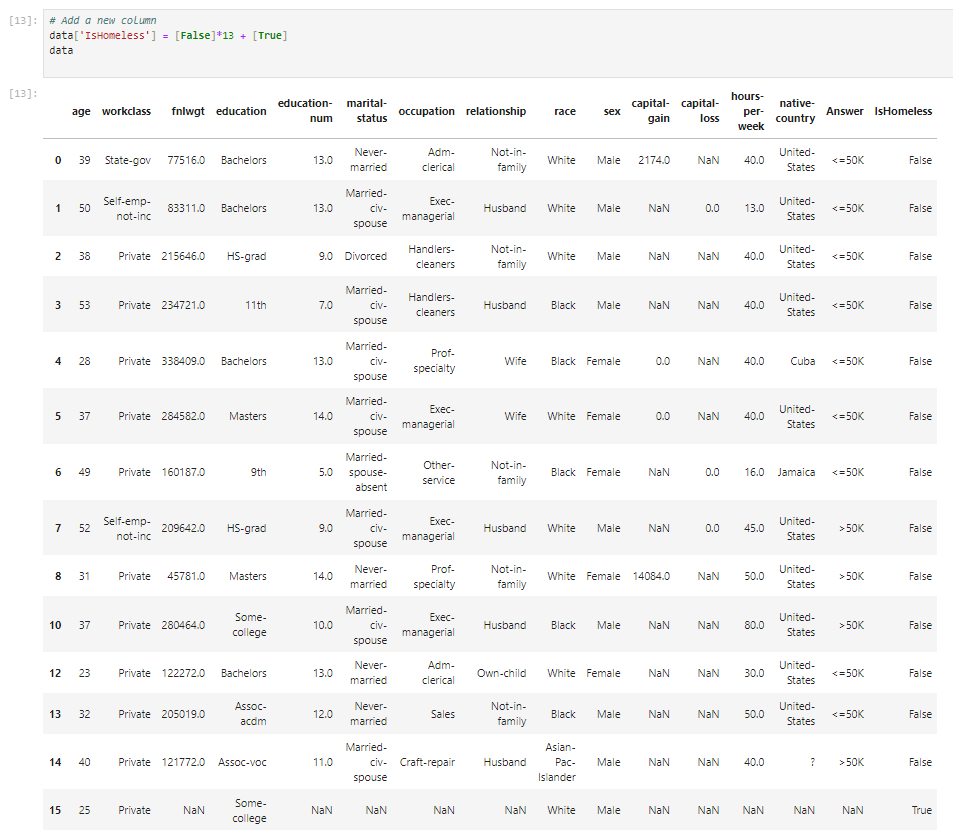


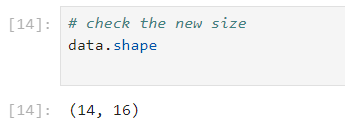


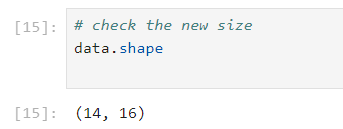


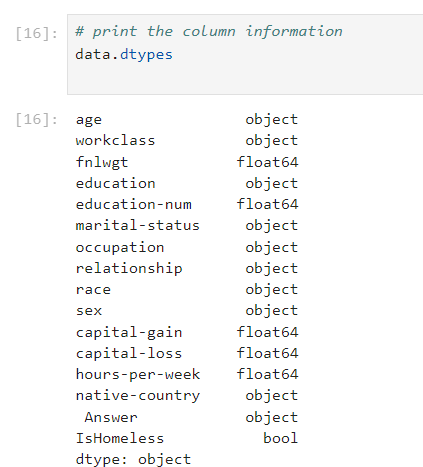


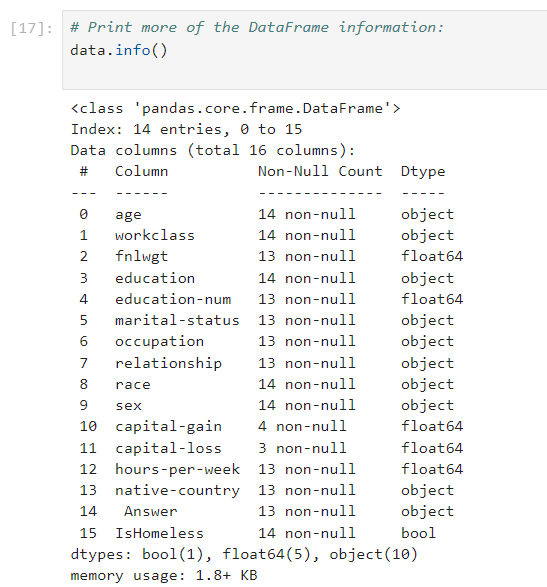


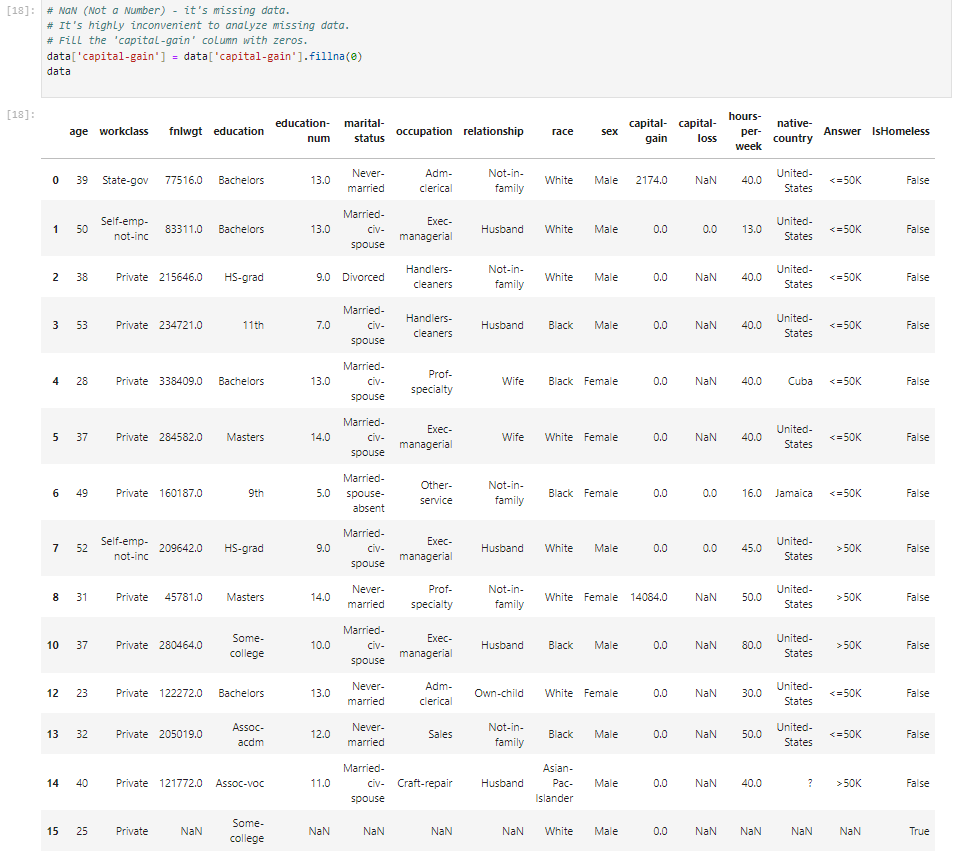


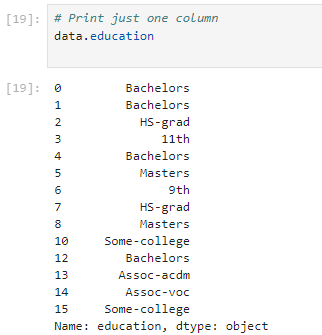


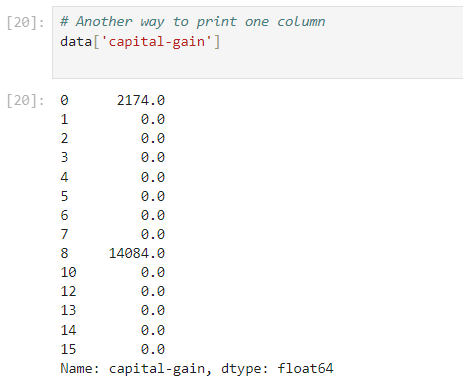


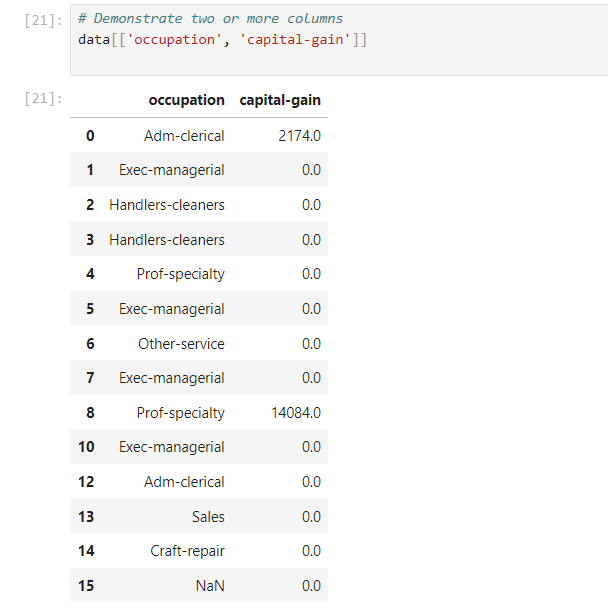


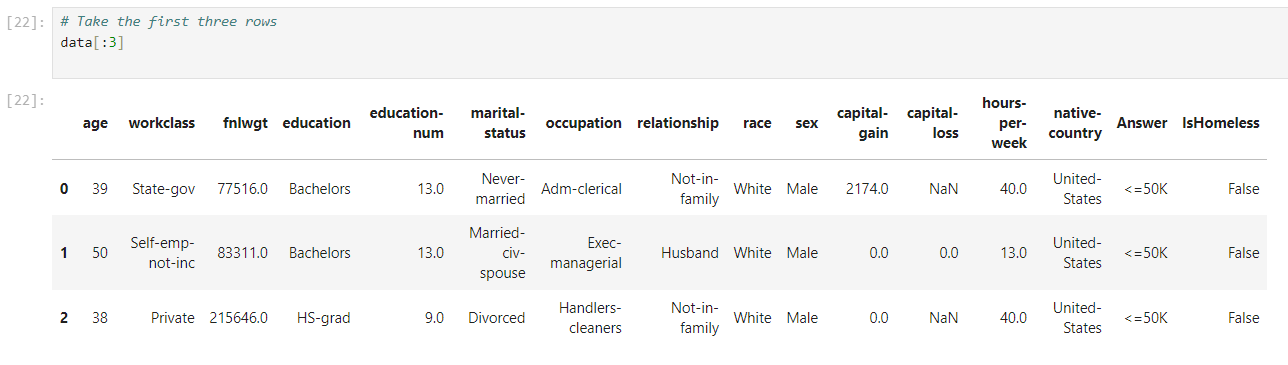


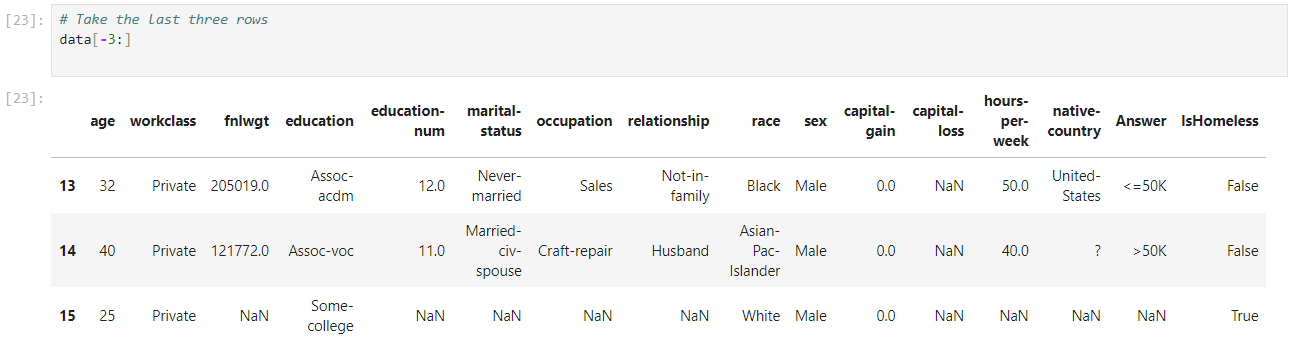


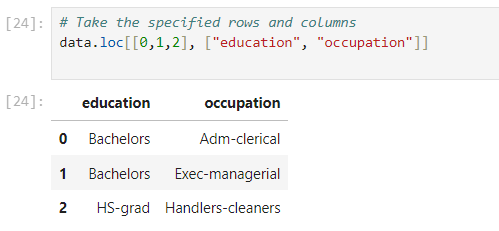


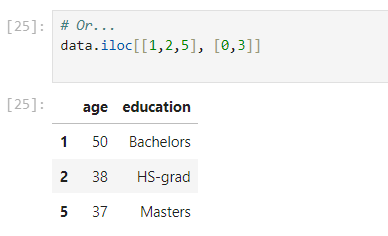


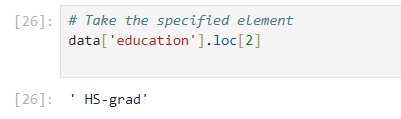


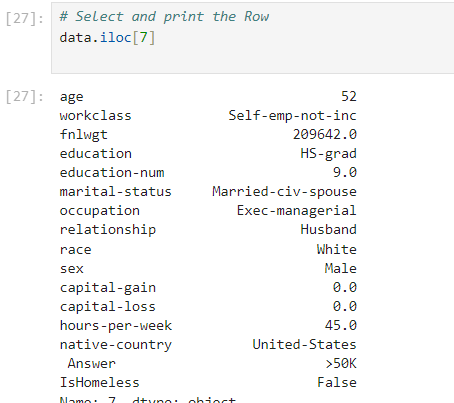


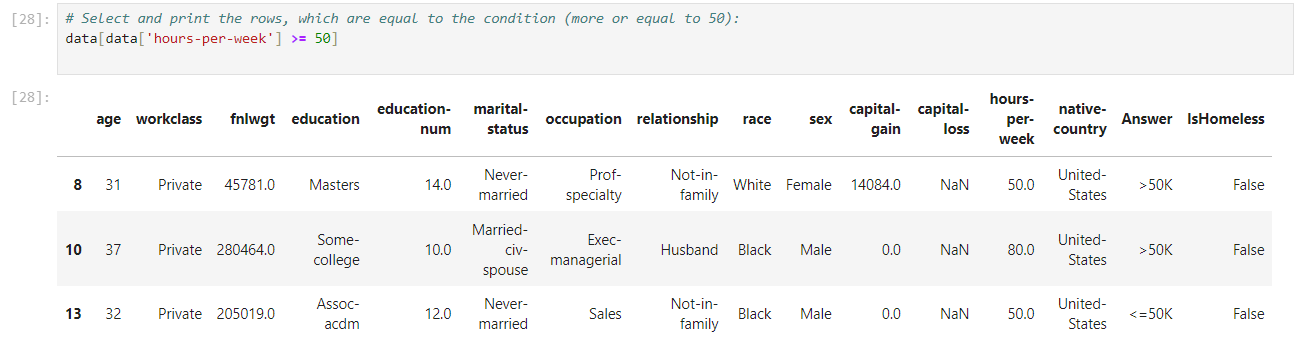


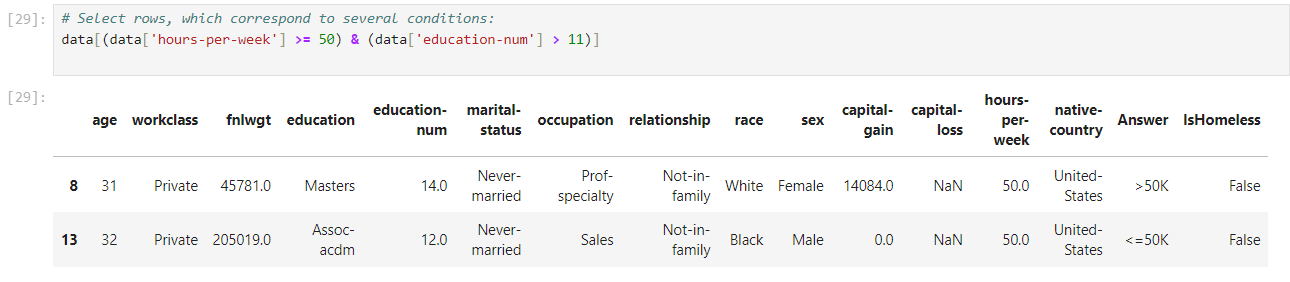


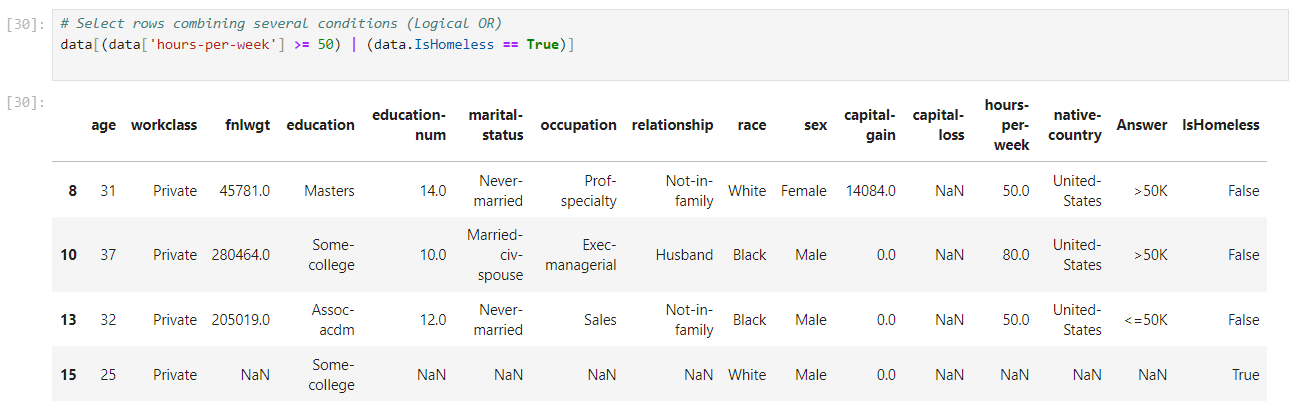


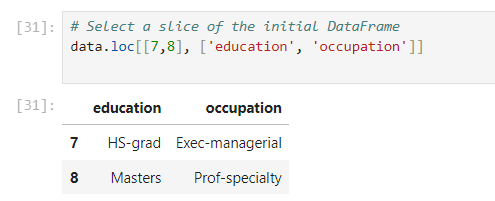


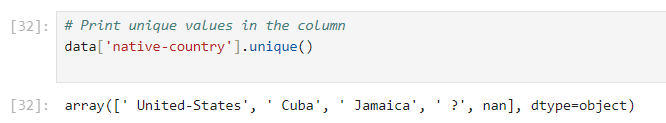


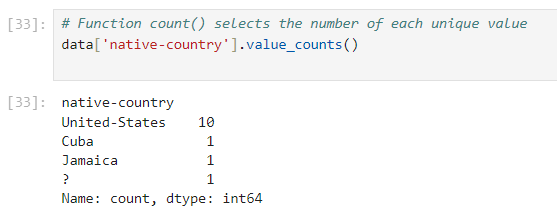


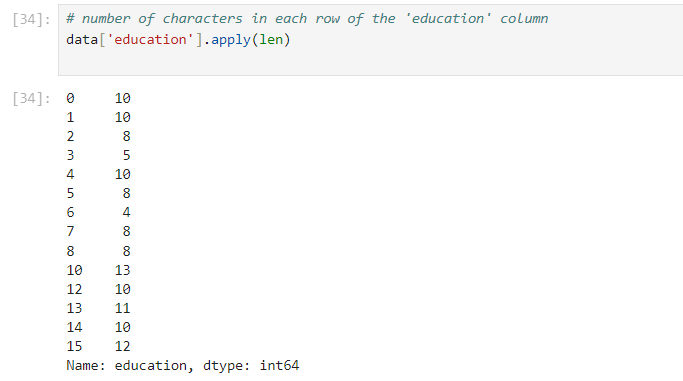


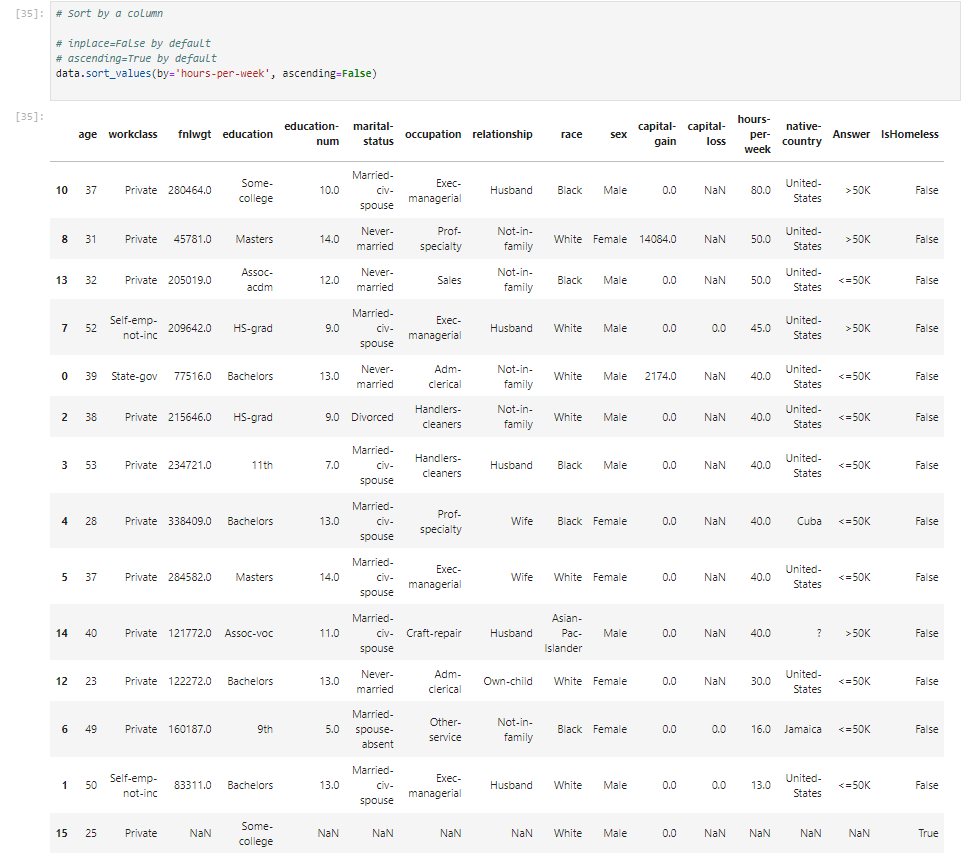


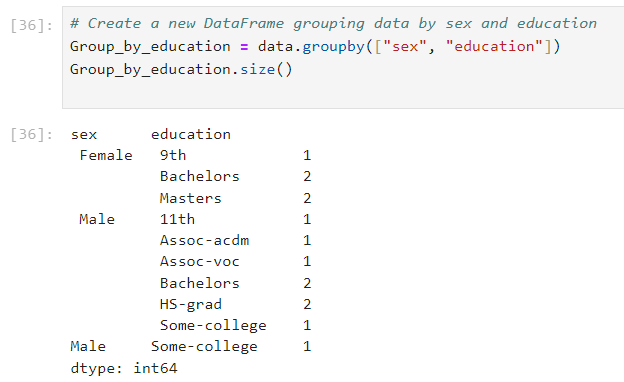


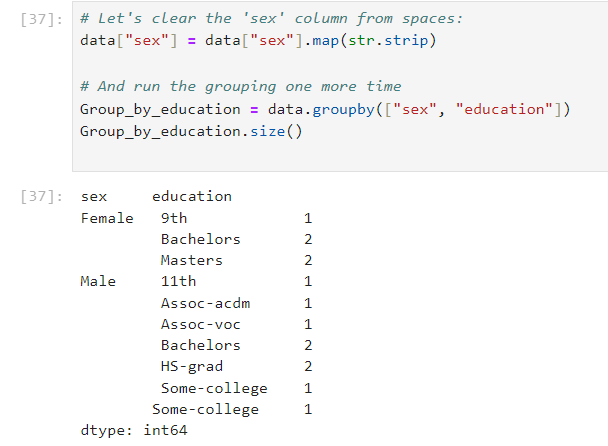


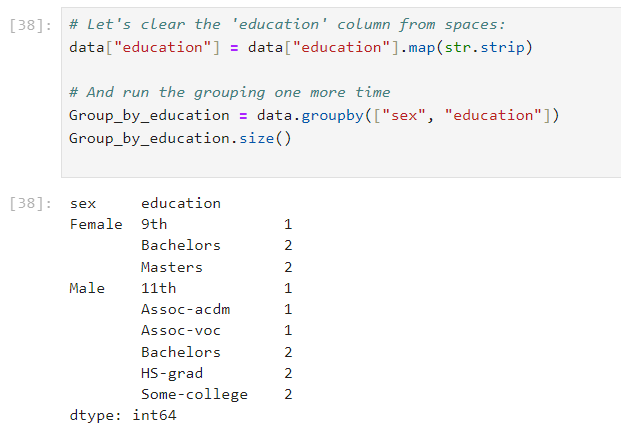


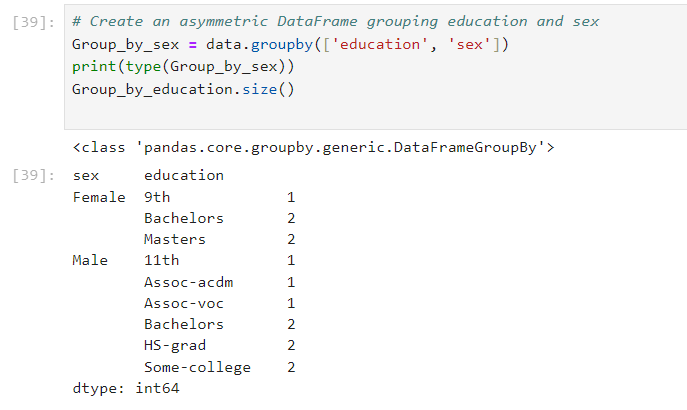


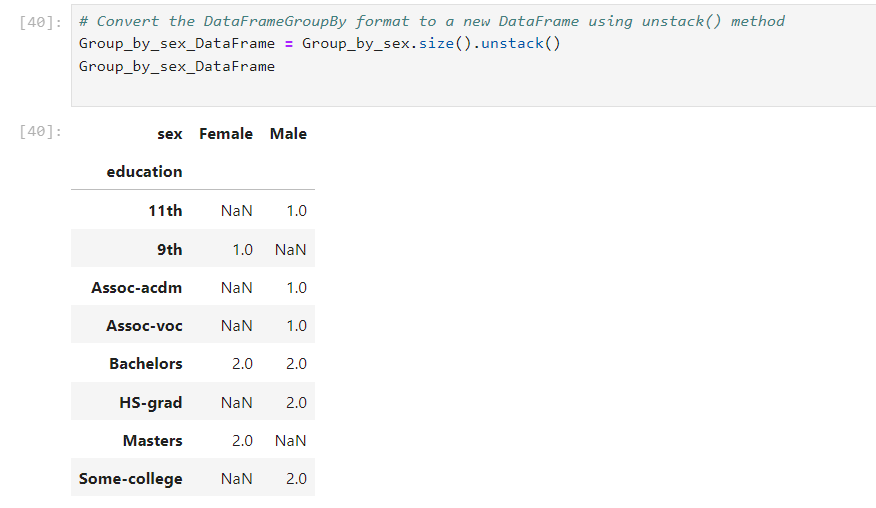


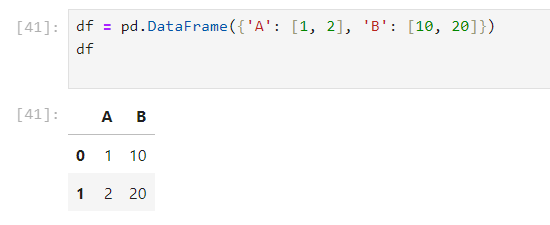


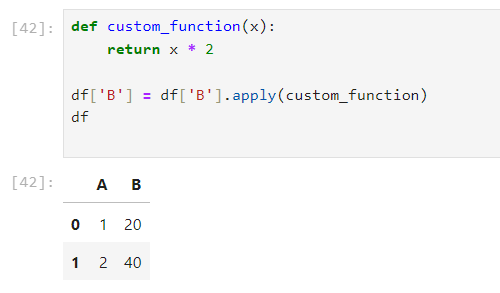


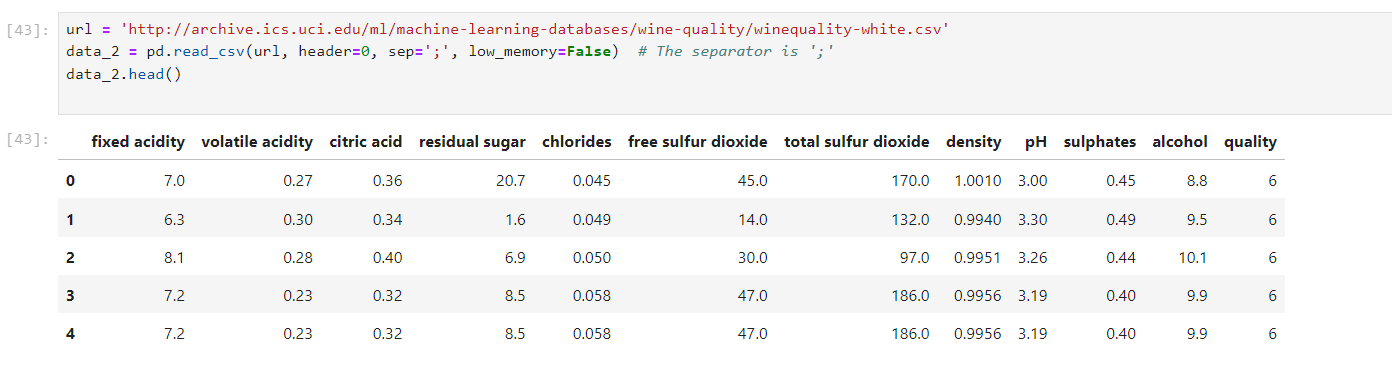










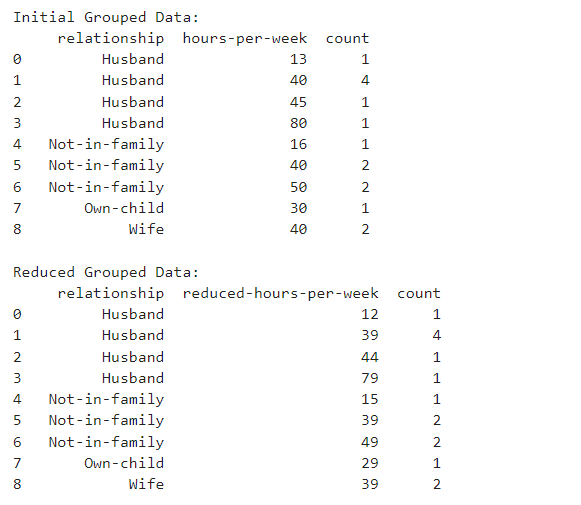


Assignment:

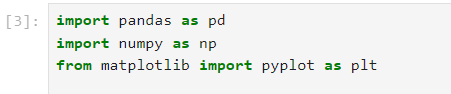
**Code:**



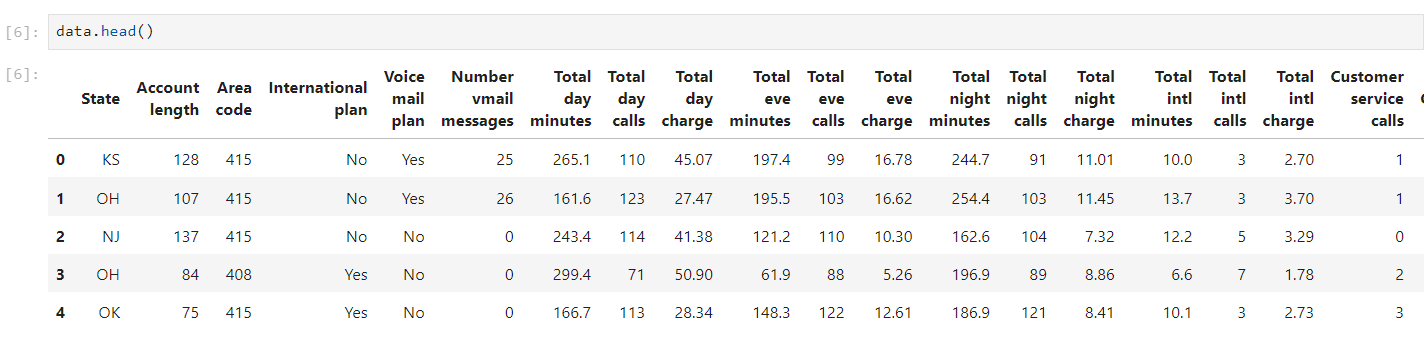
**Result:**

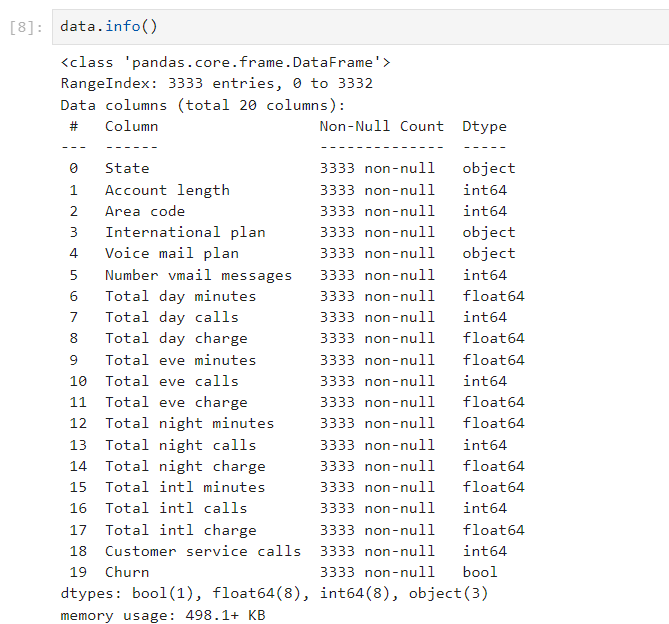


Lab 3

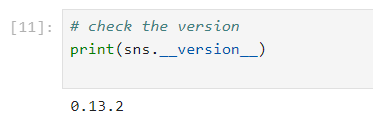
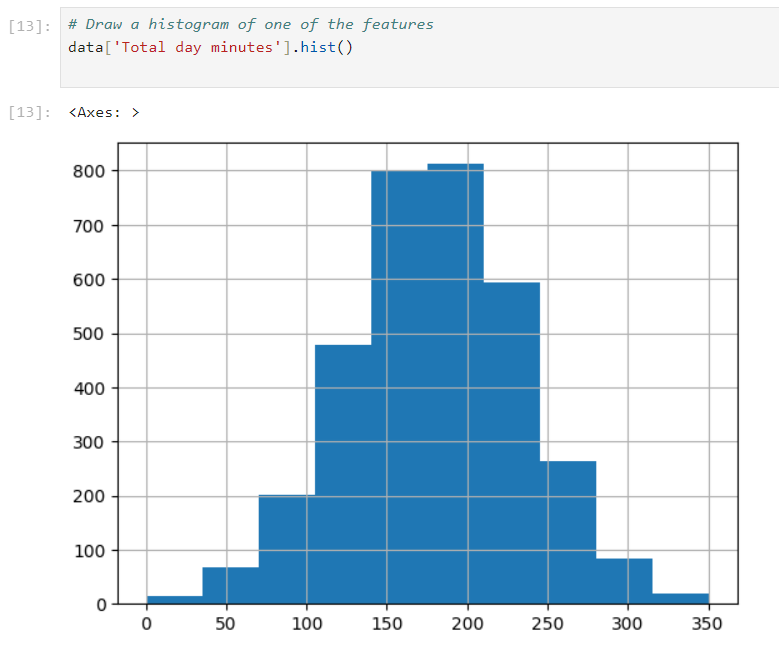


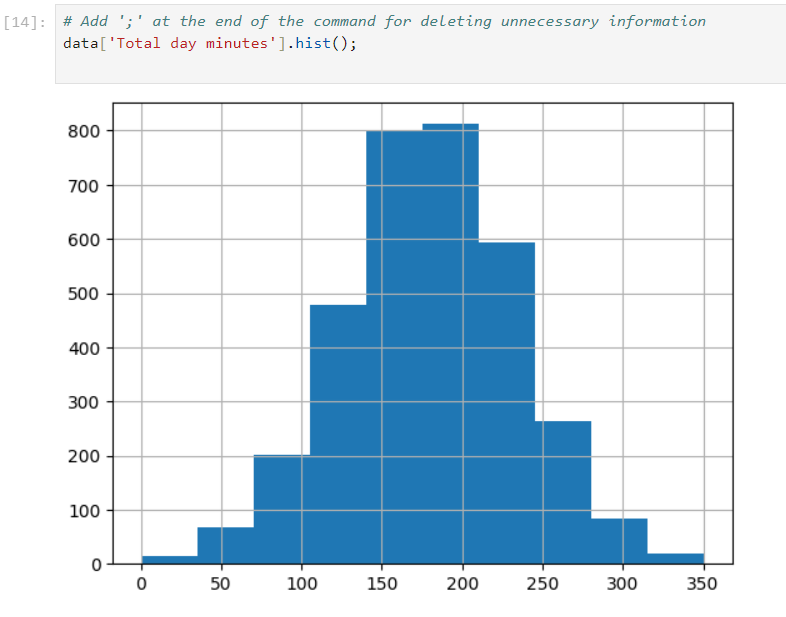


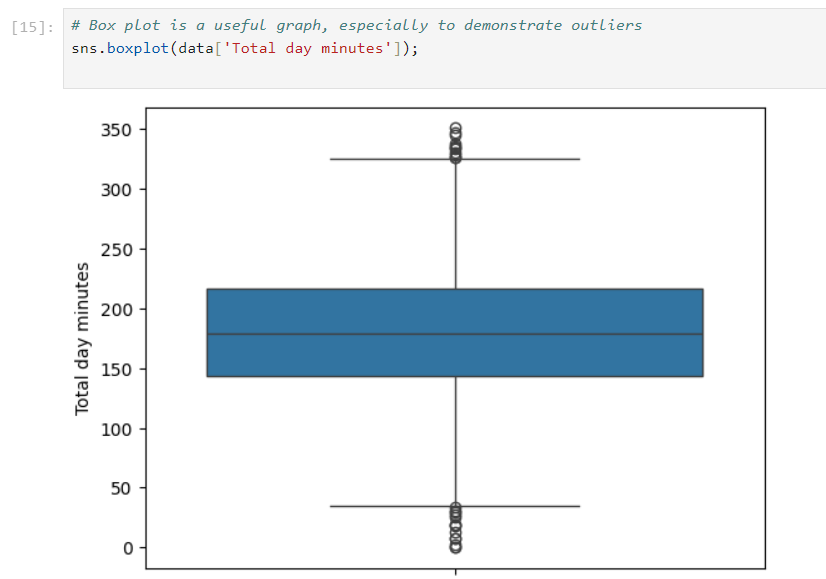


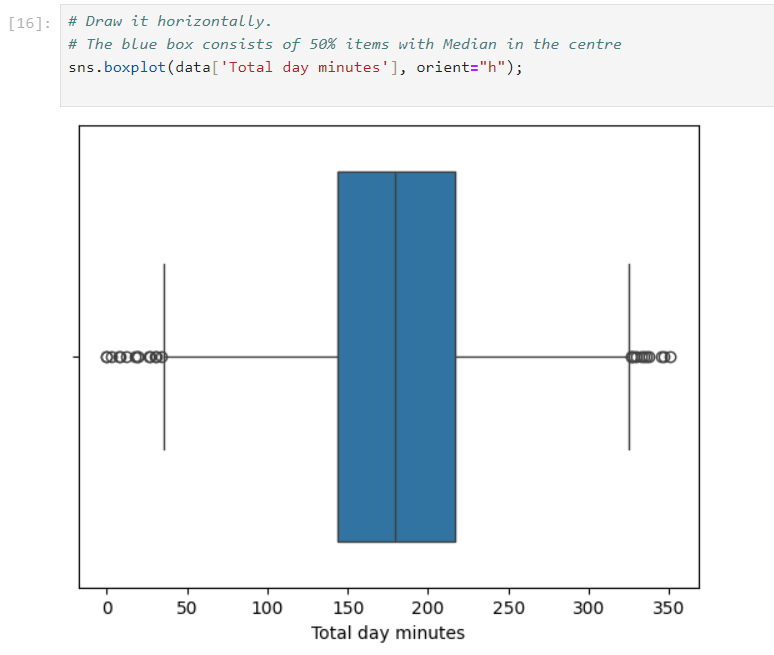


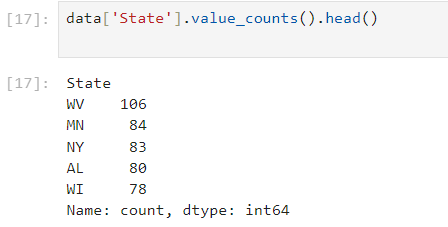


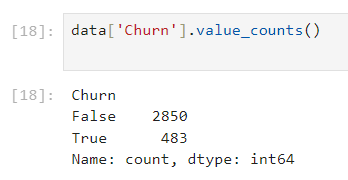
  


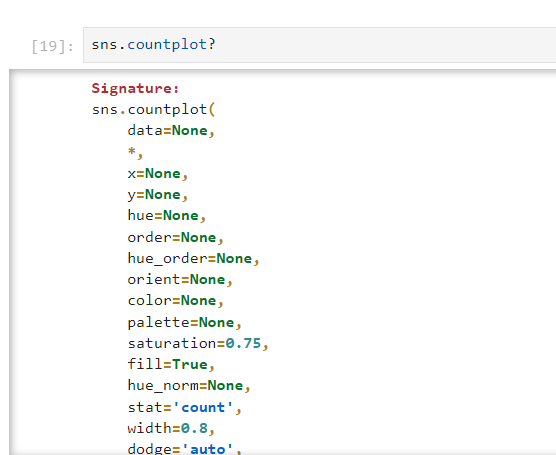


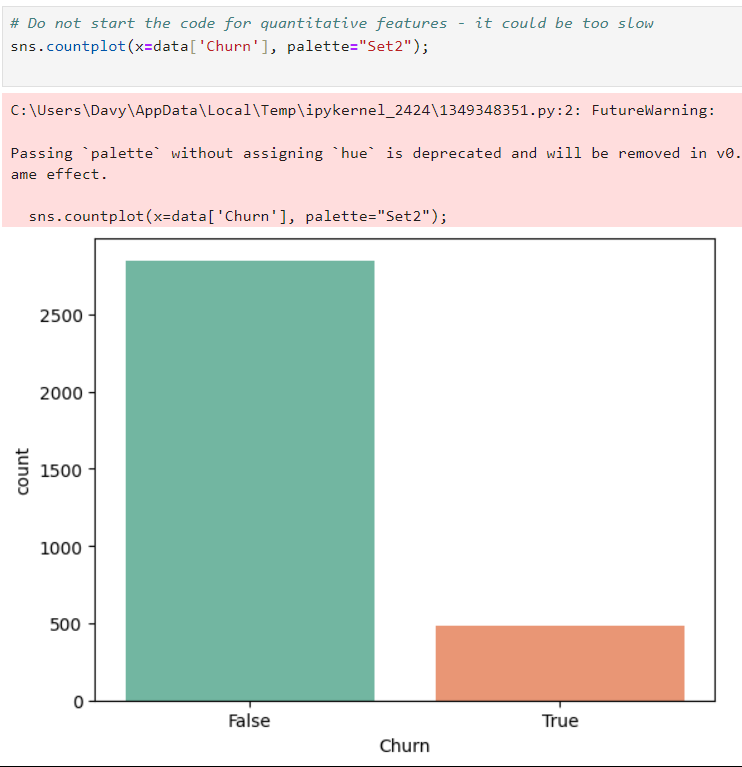


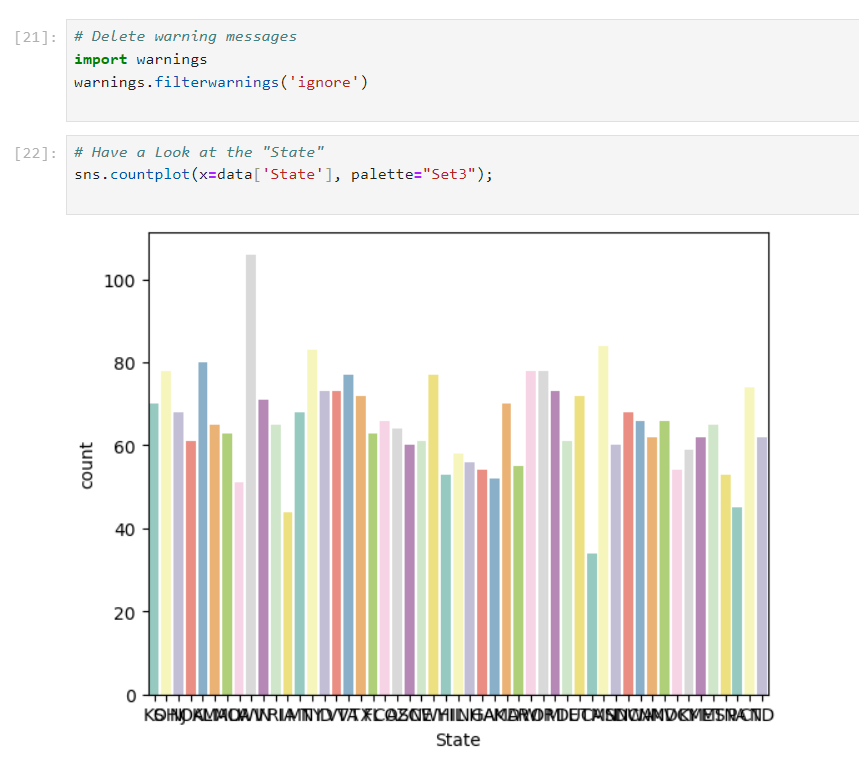


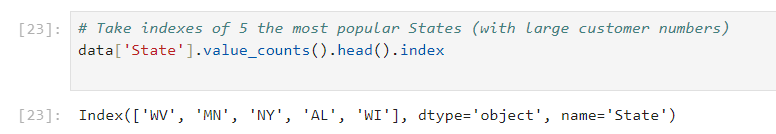


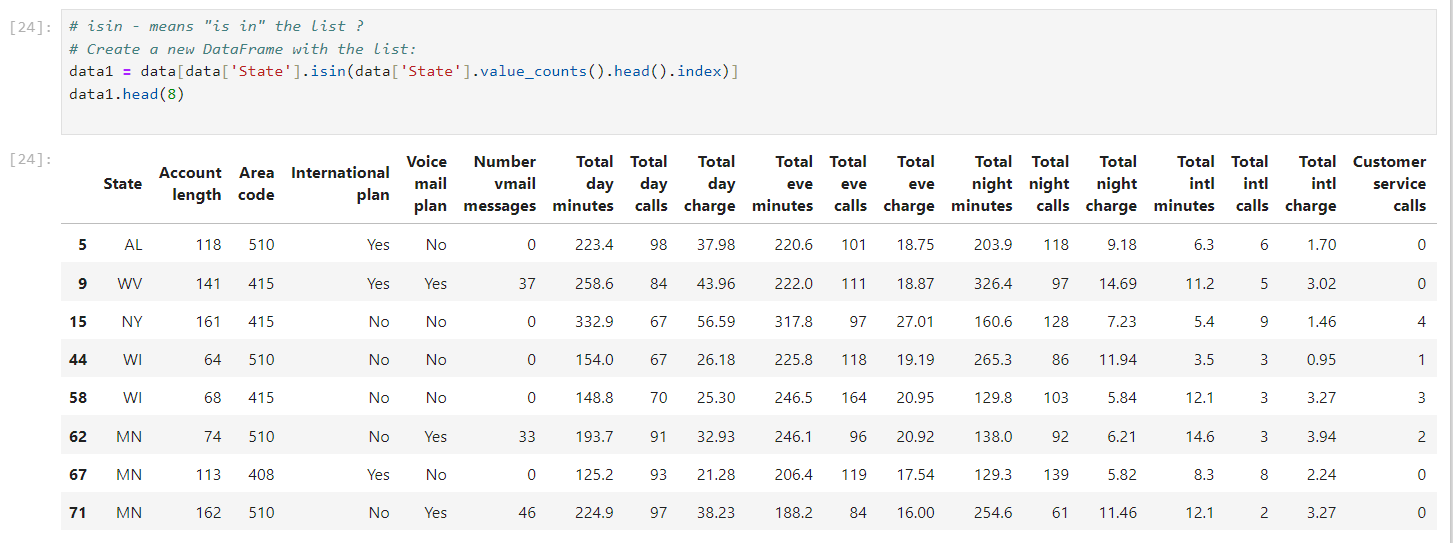


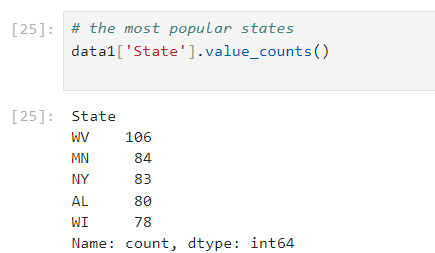


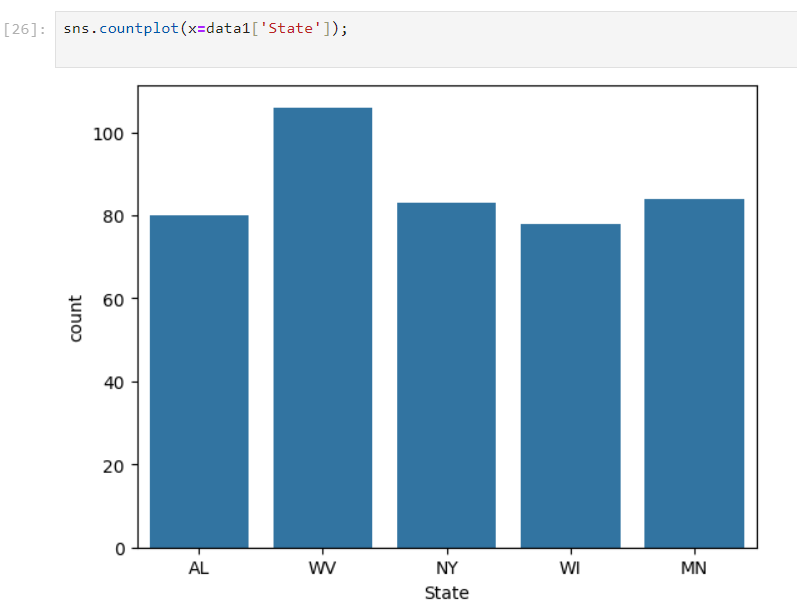


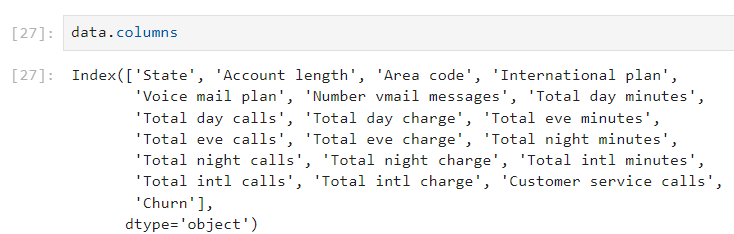


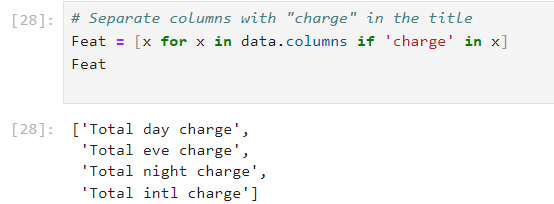




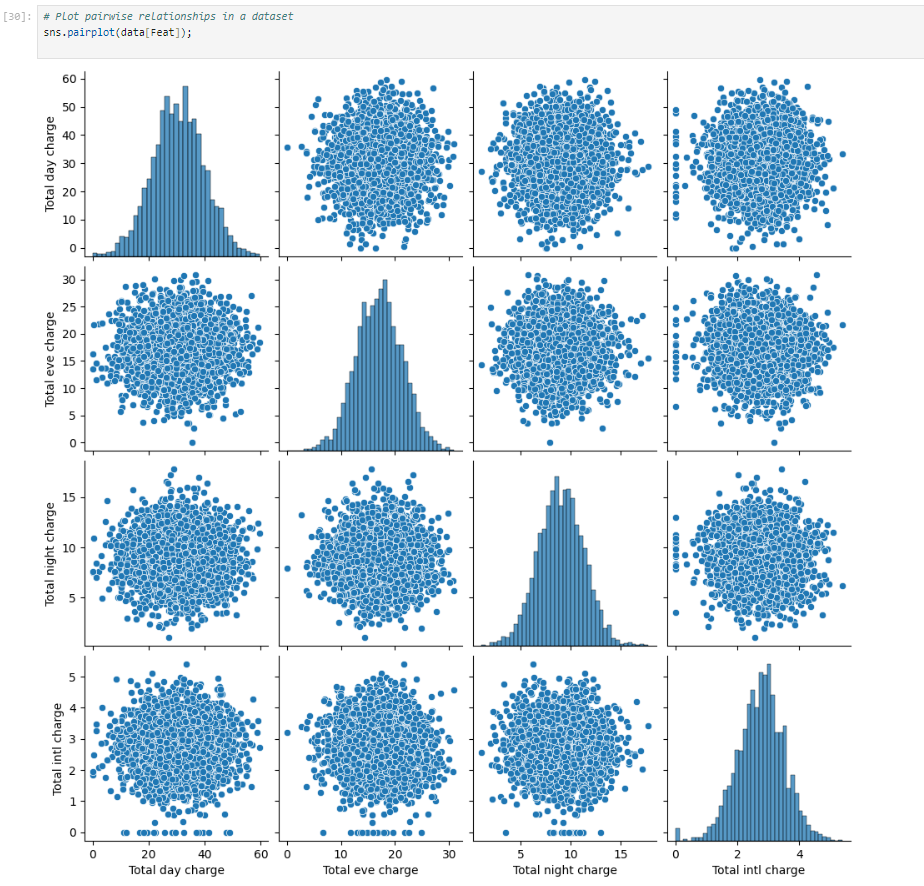


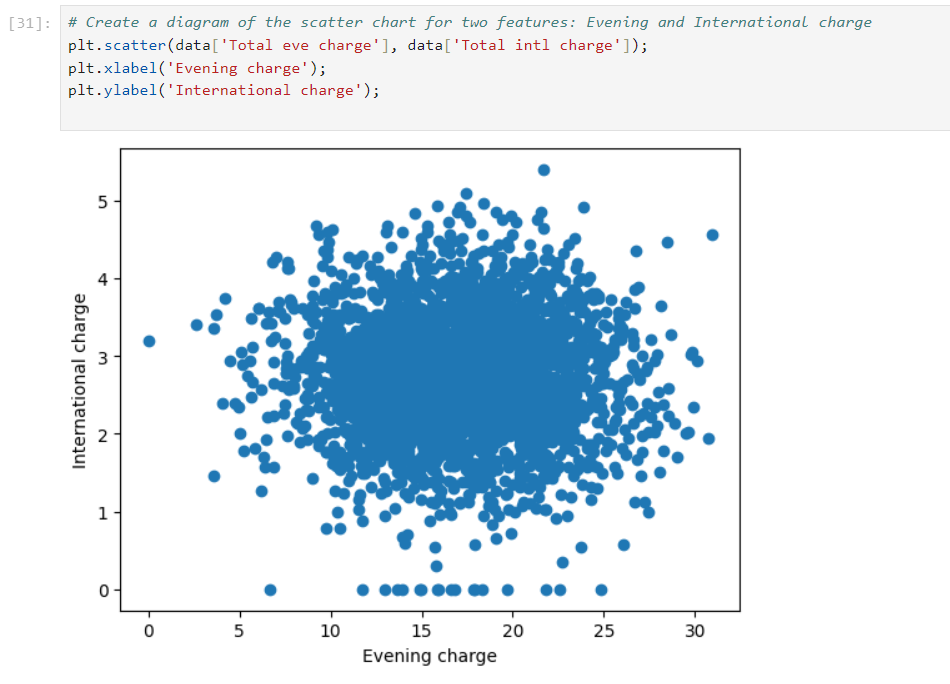


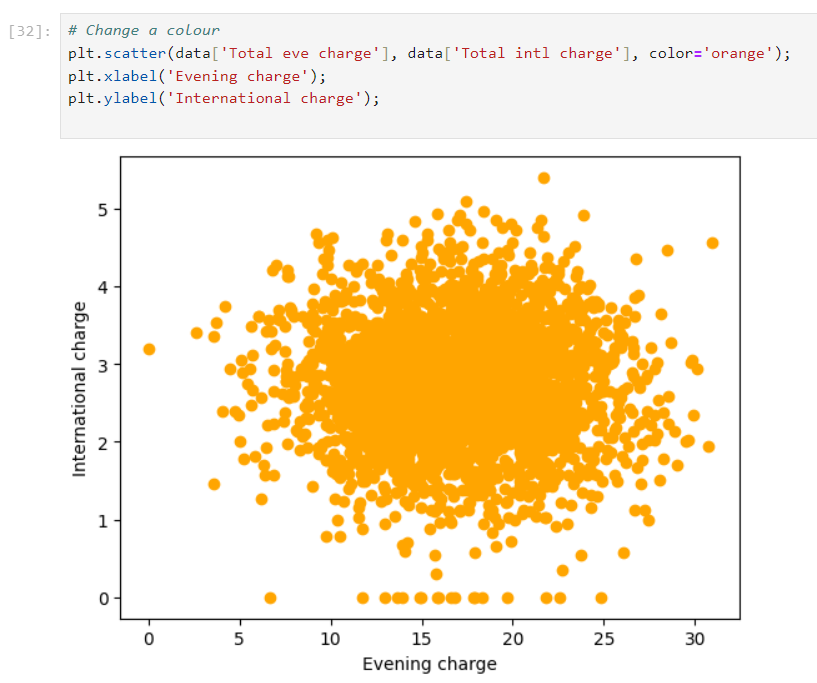


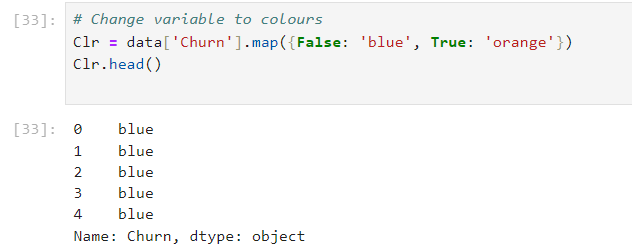


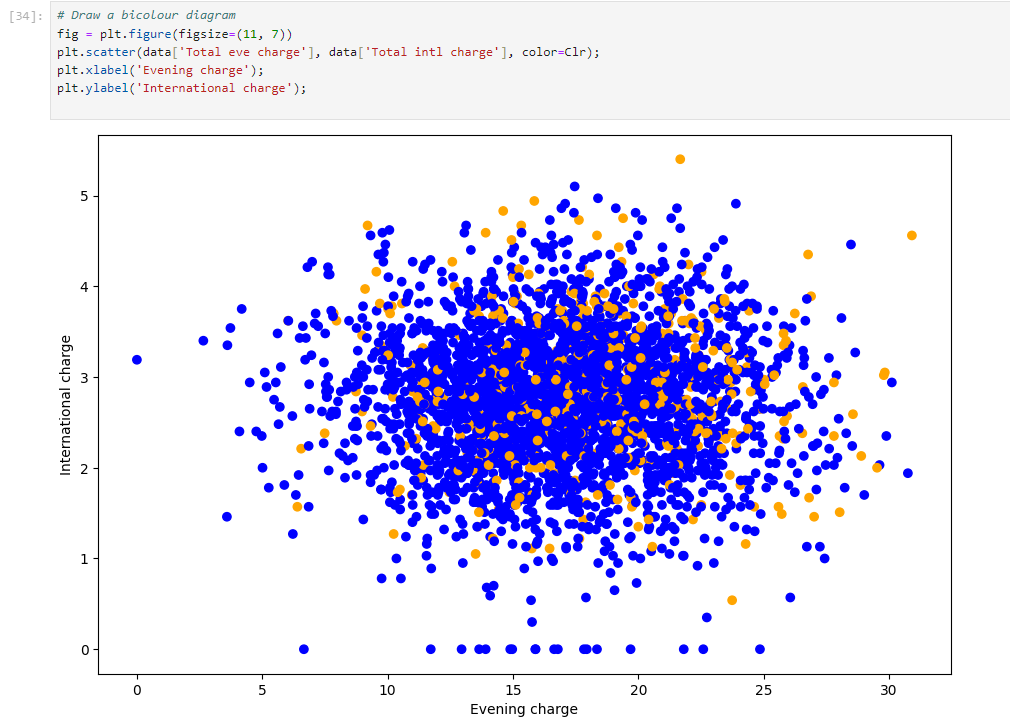


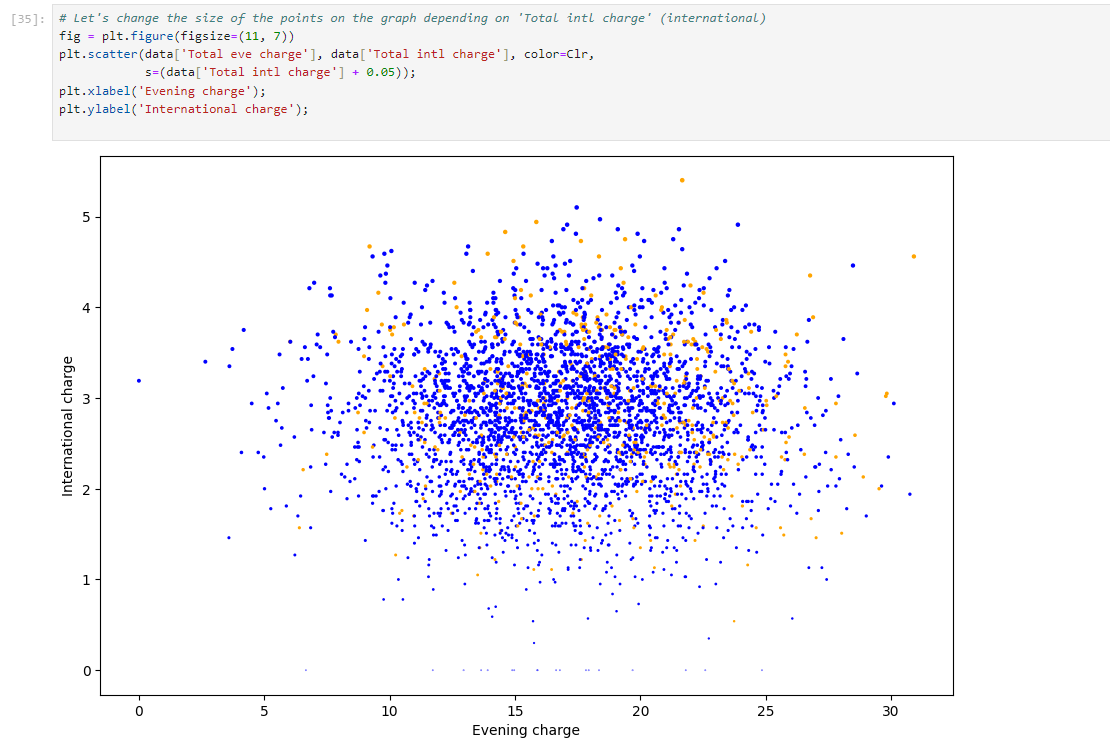


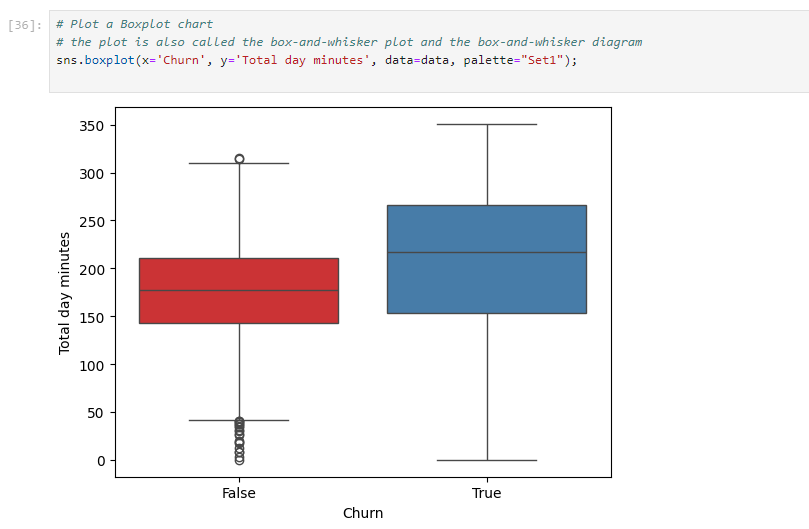


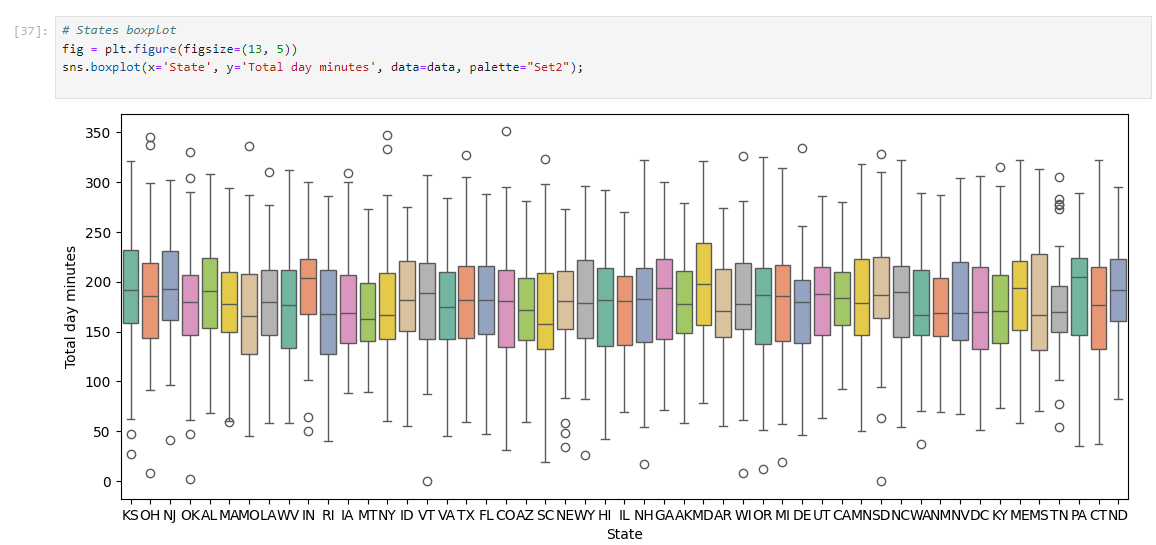


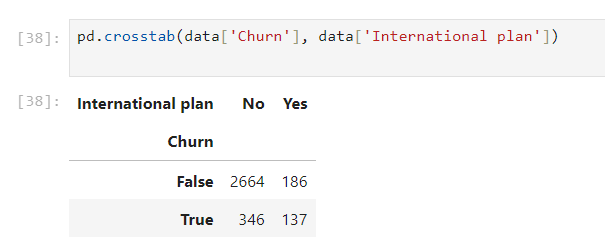


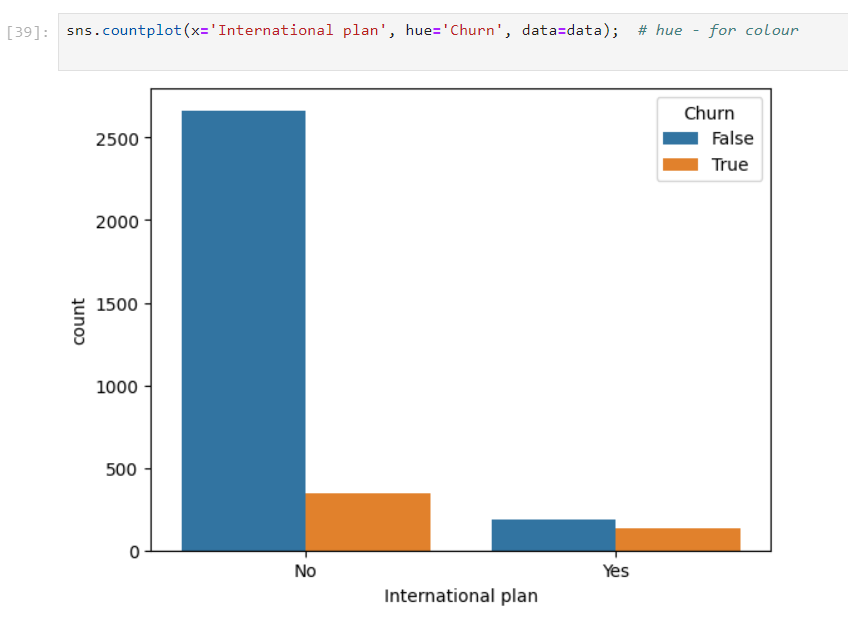


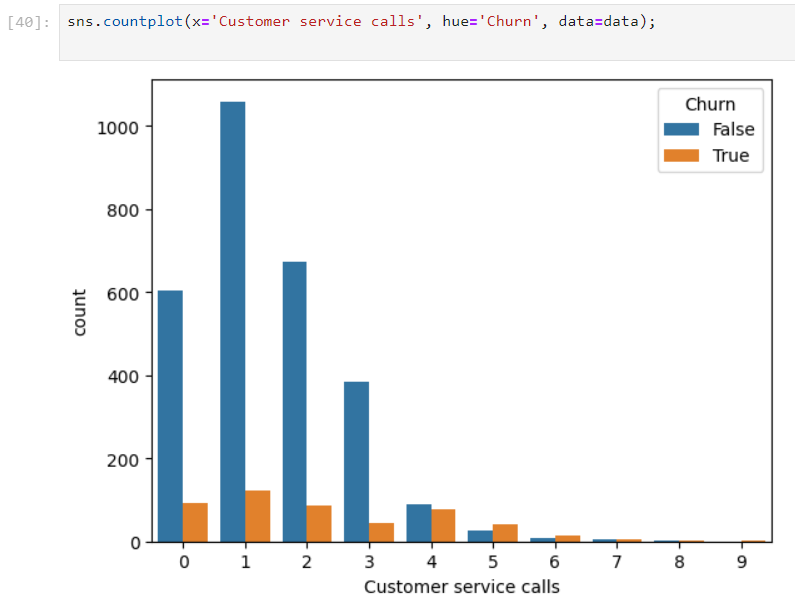


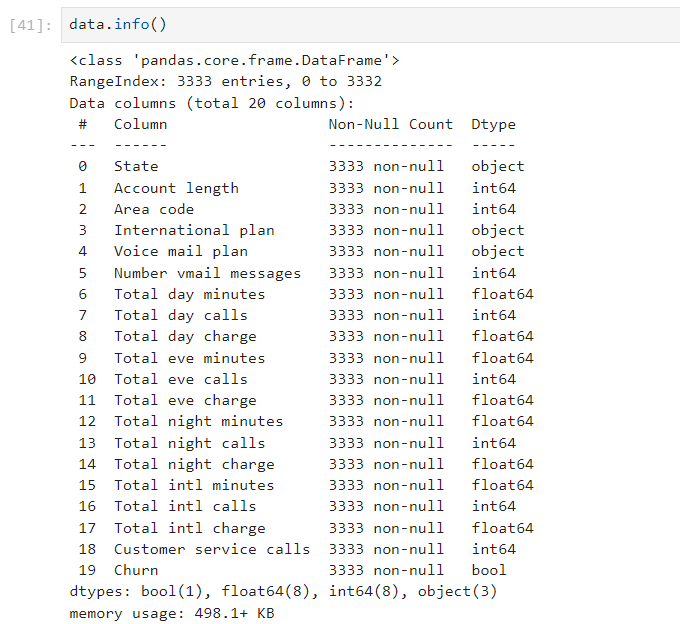




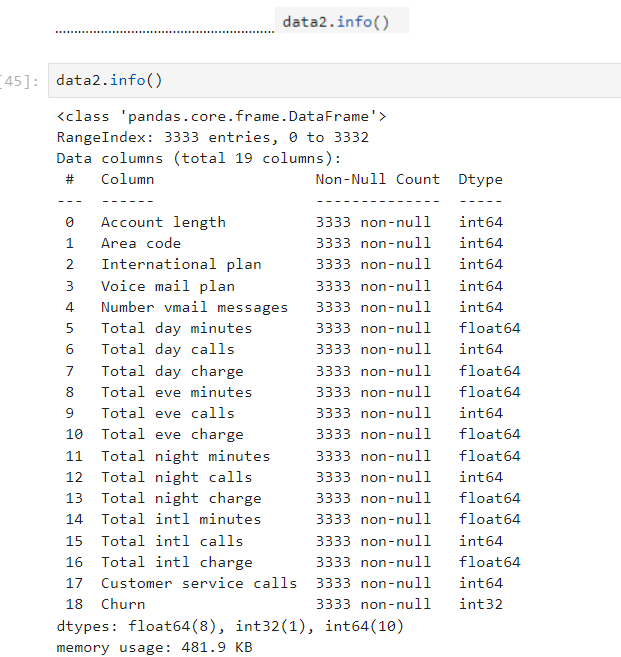


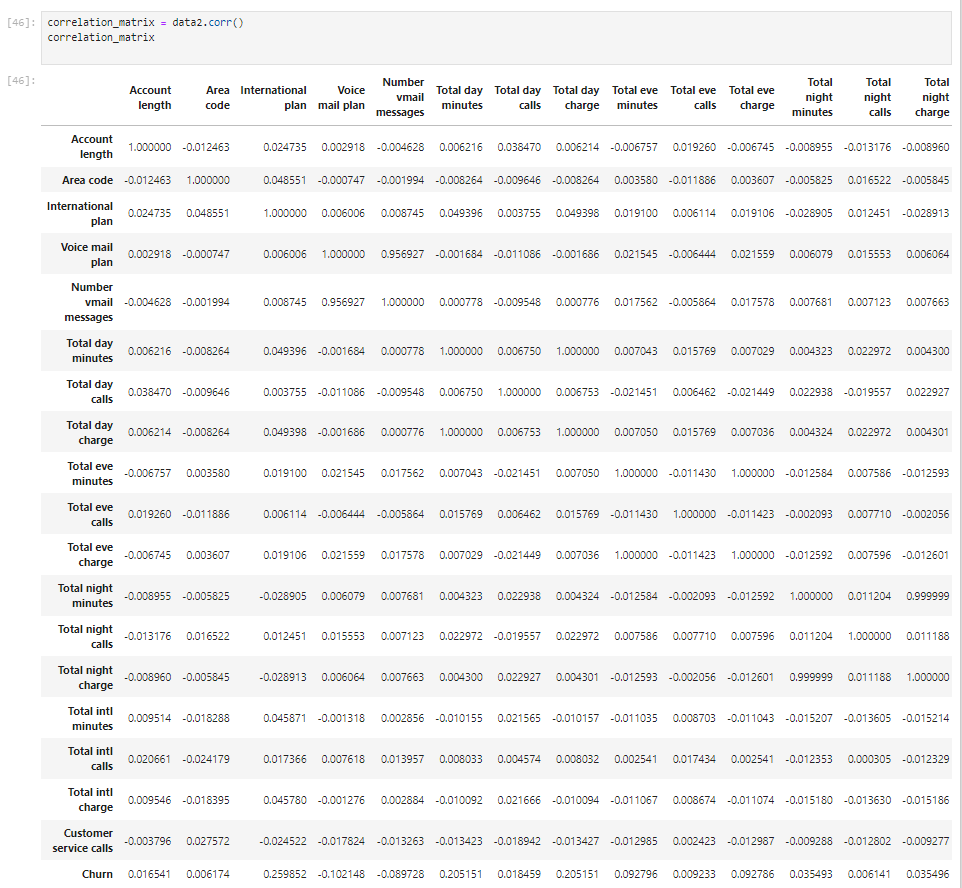


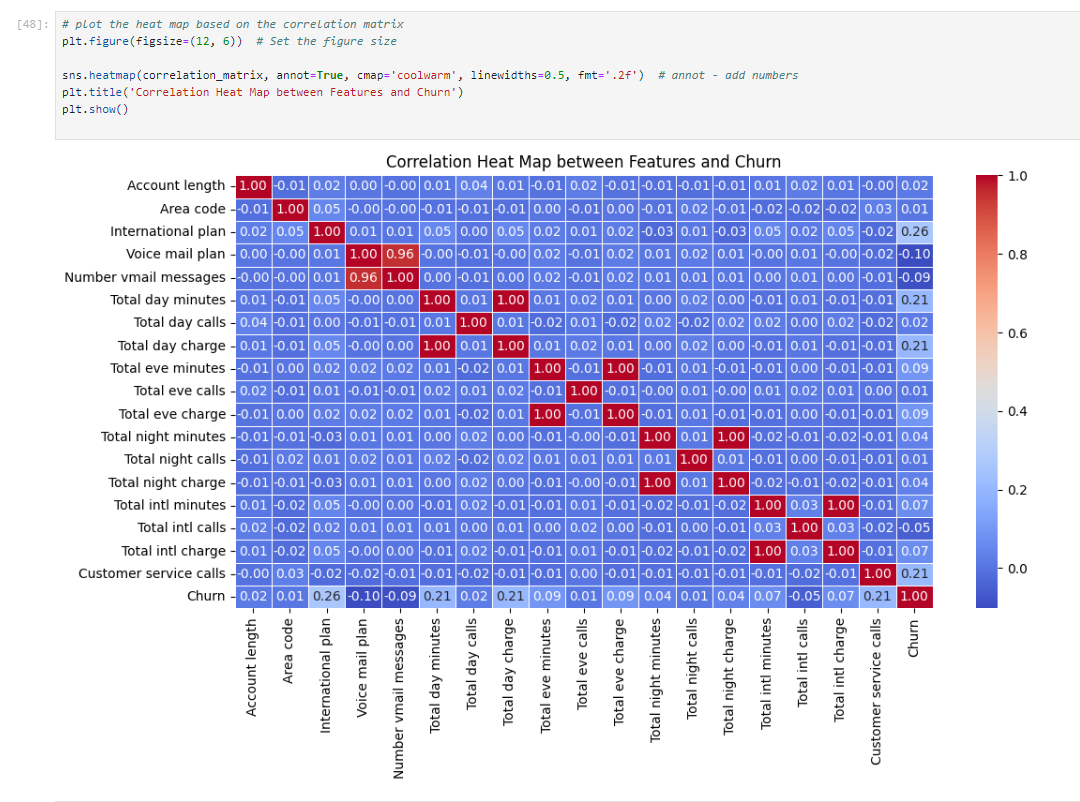






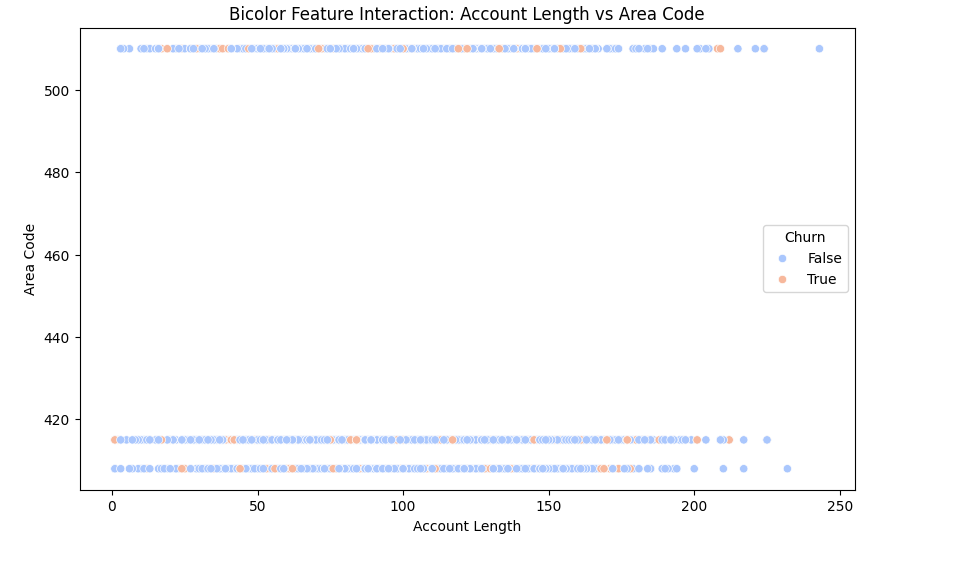






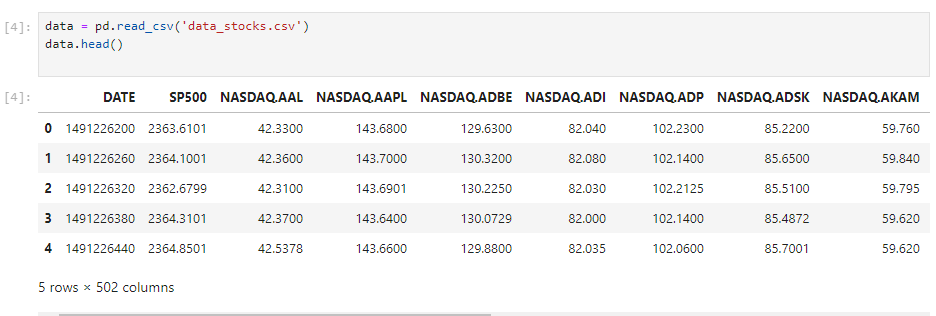
**Assignment:**

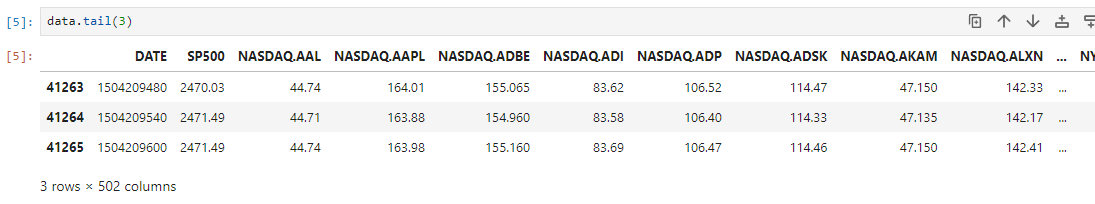
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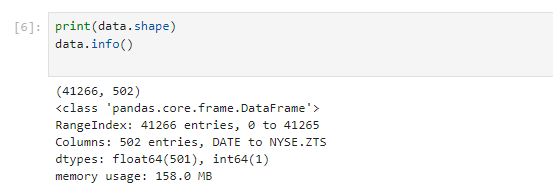
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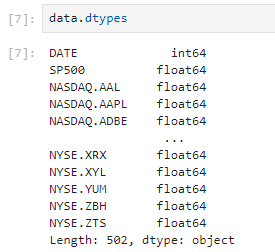
**Lab 4**

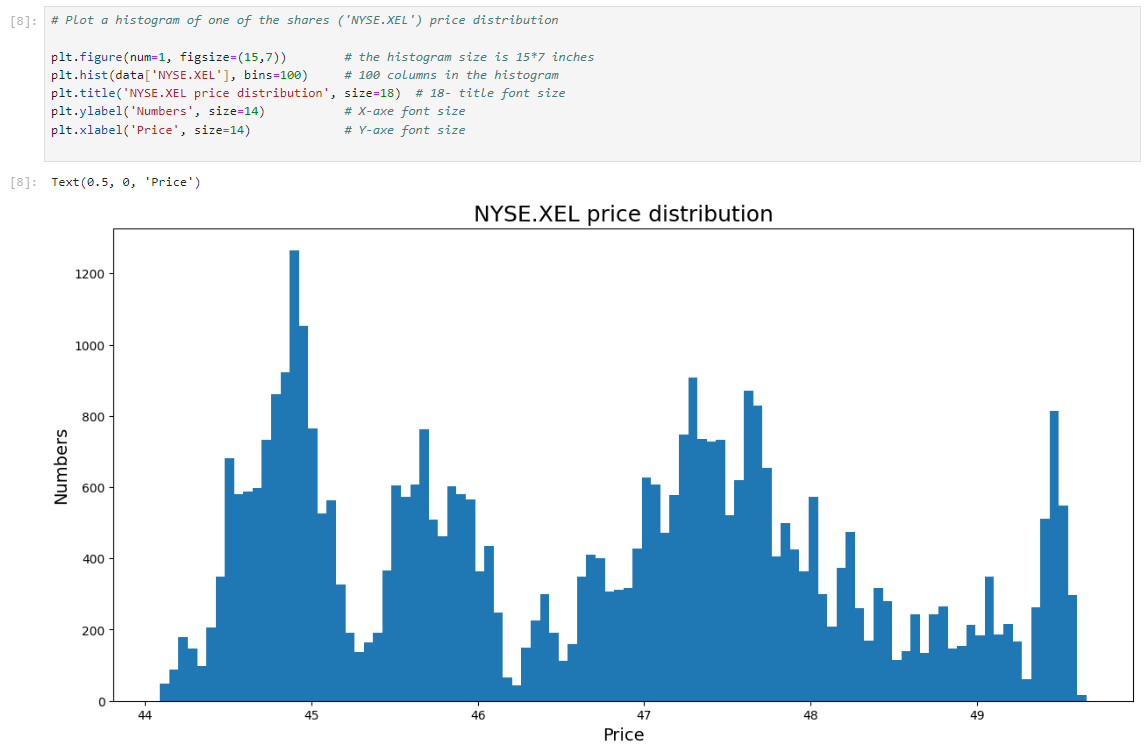
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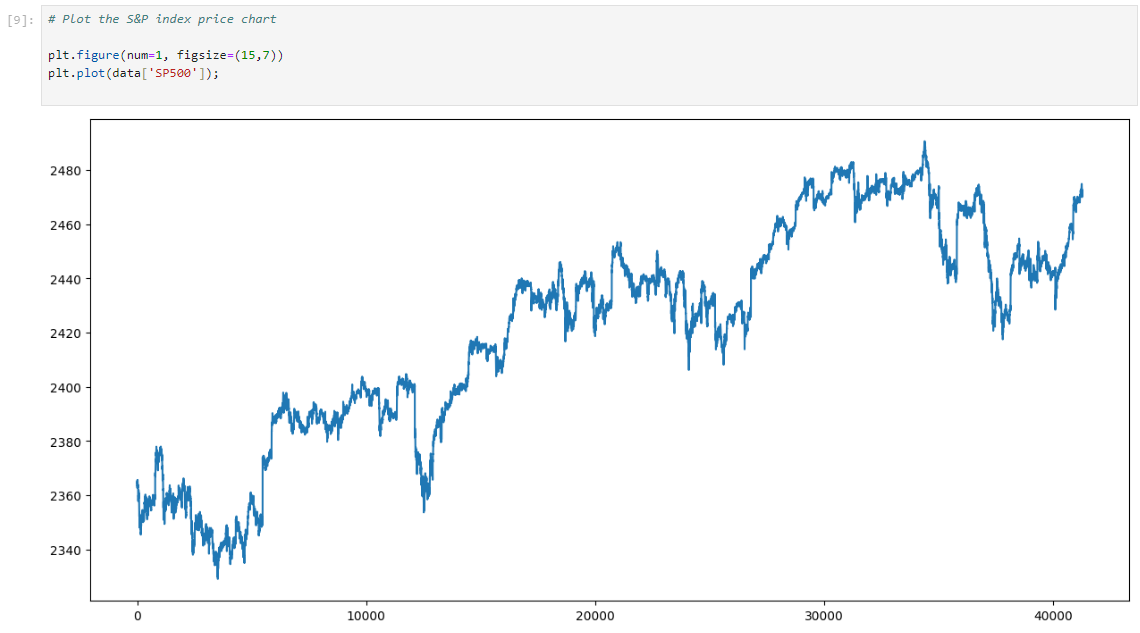
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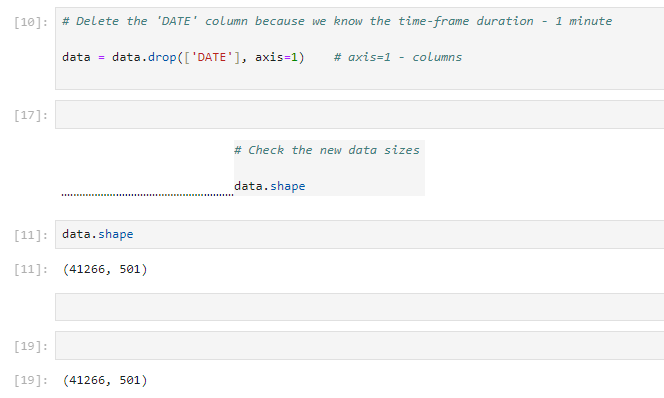
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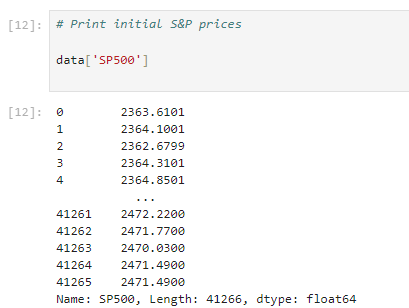
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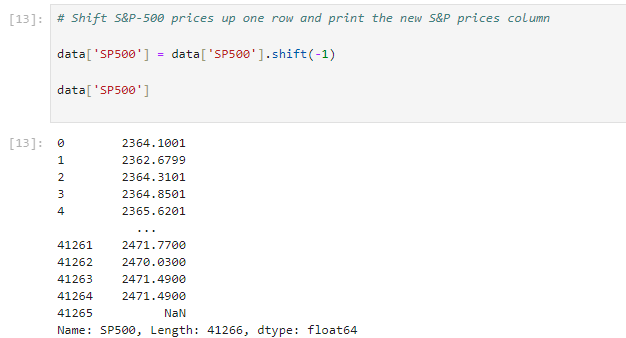
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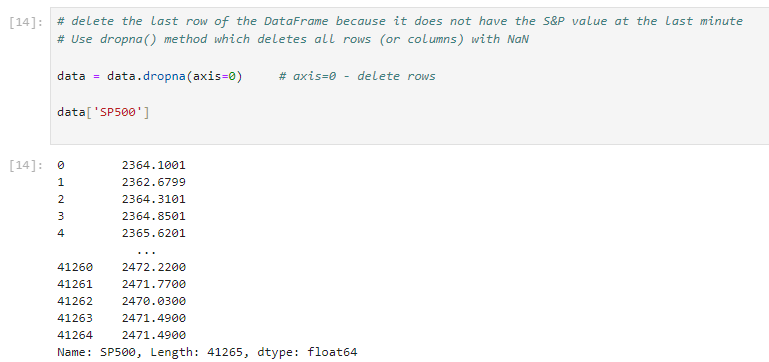
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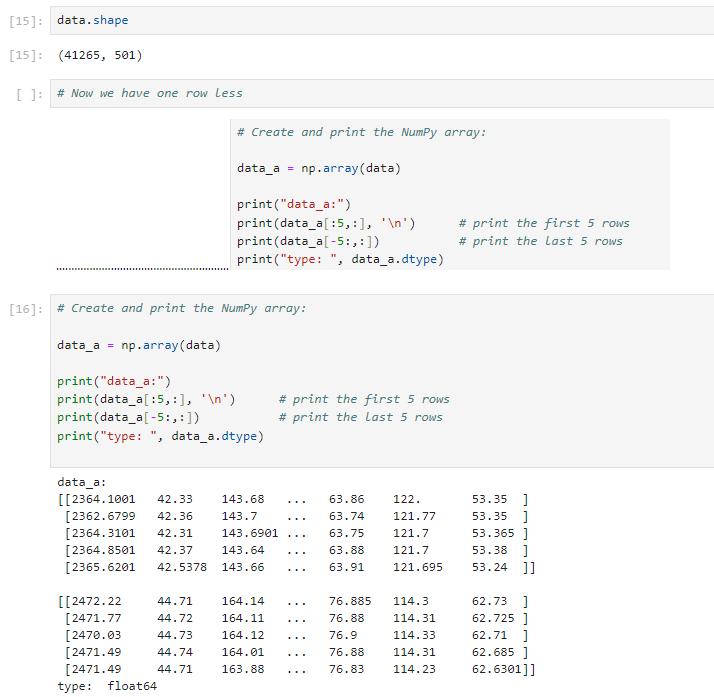
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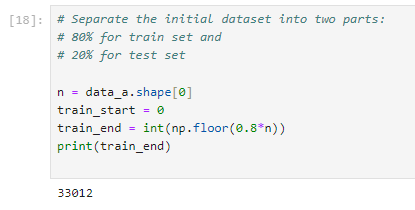
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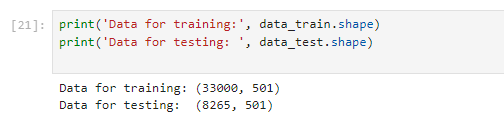
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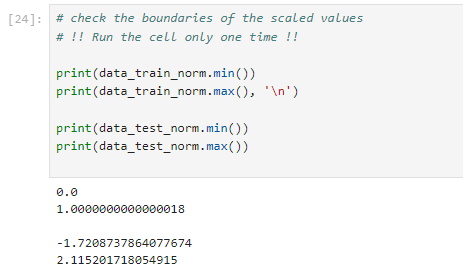
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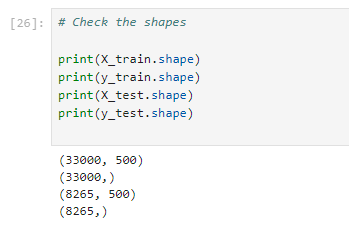
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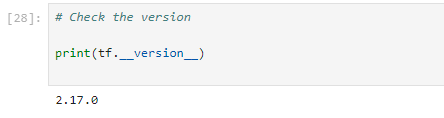
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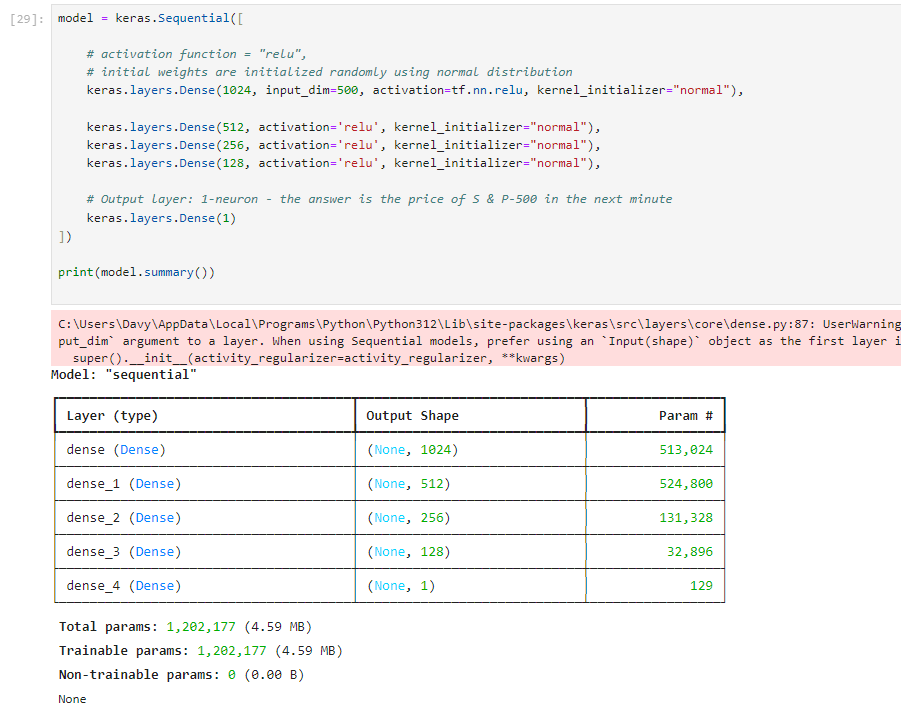
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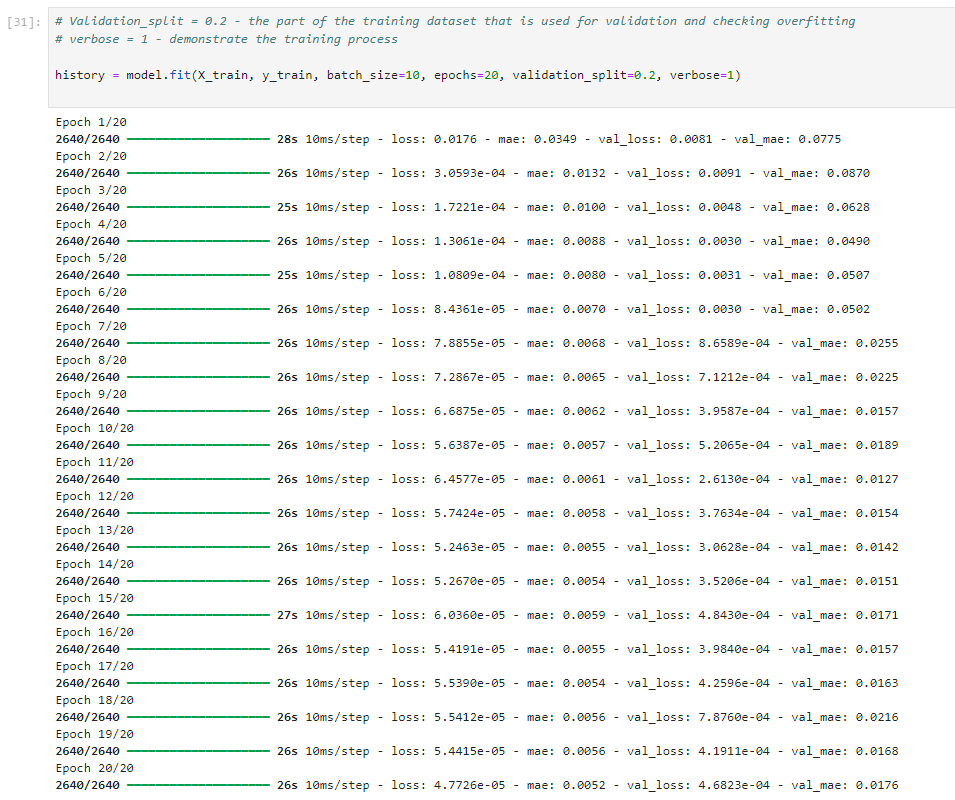
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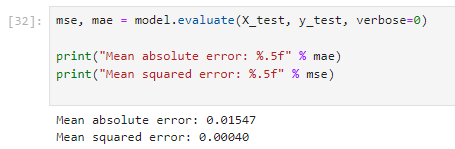
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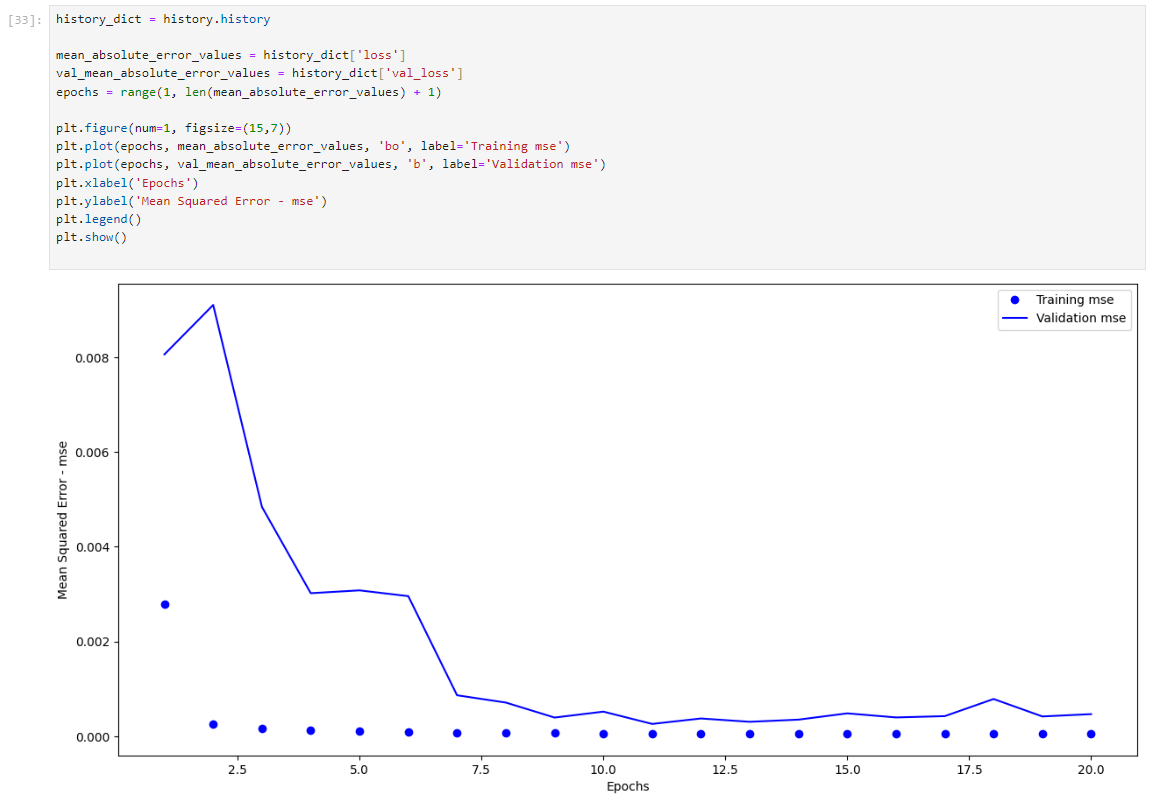
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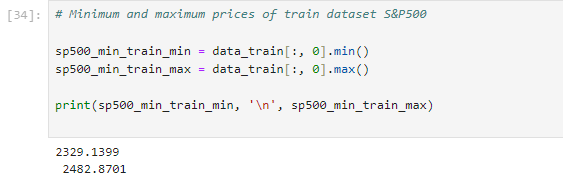
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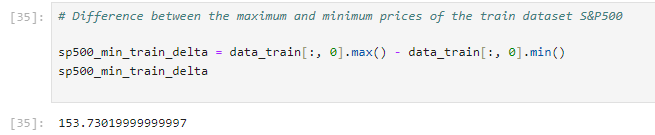
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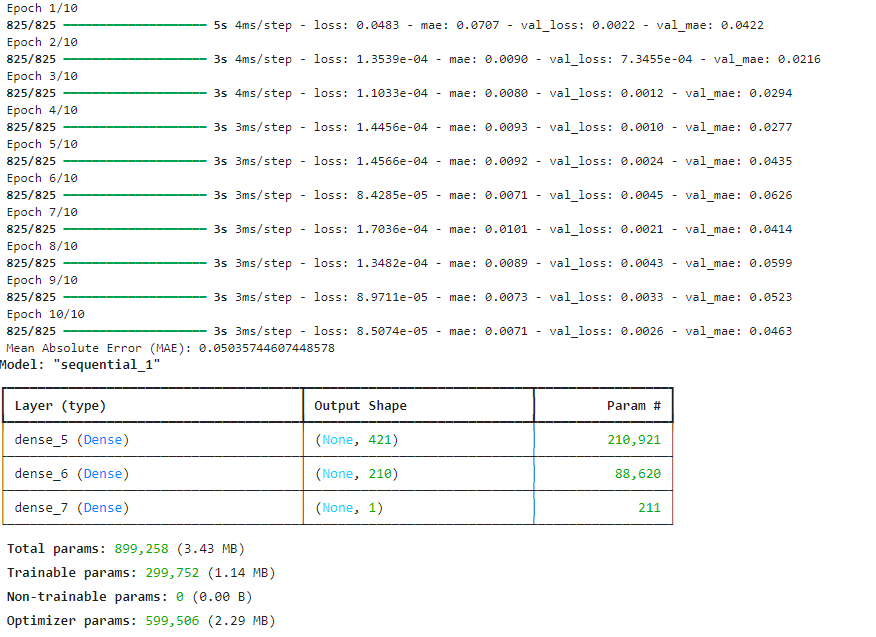
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**Assignment**

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