1. Create a folder for your Achievement 4 project following the structure recommended in this Exercise.

Cjupyter			
Files Running Clusters			
Select items to perform actions on them.			
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□			
□ □ 01 Project Management			
□ □ 02 Data			
□ □ 03 Scripts			
□ □ 04 Analysis			
□ □ 05 Sent to client			

2. Within your "Scripts" folder, create a Jupyter notebook for this Exercise and name it according to the recommended naming convention.

a.

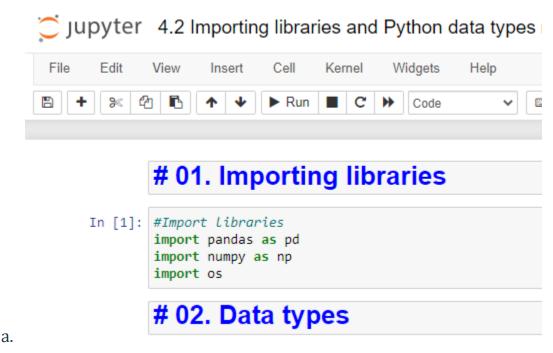
a.

C jupyter			
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3. Install the pandas and NumPy libraries using your command prompt (Anaconda Prompt for PC, Terminal for Mac).



- 4. Add a section header to your notebook for importing libraries.
  - a. See screenshot in Step 6.
- 5. In the cell beneath the section header, import the pandas, NumPy, and os libraries. Ensure you include a comment in your code.
  - a. See screenshot in Step 6.
- 6. Add a second section header to your notebook for working with Python data types.



7. Code 3 different ways of reaching a result of 100 by adding or subtracting numeric variables.

```
In [26]: x = 99
In [27]: x + 1
Out[27]: 100
In [28]: y = 101
In [29]: y - 1
Out[29]: 100
In [32]: y - x + 98
Out[32]: 100
```

8. Code 2 floating-point variables and divide them by each other.

```
In [33]: w = 5.4321
In [34]: v = 1.2345
In [35]: w / v
Out[35]: 4.400243013365736
a.
```

9. Construct a short word made of separate strings (you'll need to concatenate some strings!).

```
In [36]: u = 'Min'
In [37]: t = 'dy'
In [38]: u + t
Out[38]: 'Mindy'
a.
```

10. Construct 2 short sentences made of separate strings.

```
In [39]: a = 'Hello, '
In [46]: b = 'my name '
In [41]: c = 'is Mindy. '
In [48]: d = 'How '
In [49]: e = 'are '
In [44]: f = 'you?'
In [50]: a + b + c + d + e + f
Out[50]: 'Hello, my name is Mindy. How are you?'
```

- 11. Save your Jupyter file by clicking on the **Save** icon highlighted below:
- 12. Locate your project folder on your device, compress it as a zip file (right-click the folder and select **Add to Archive**), then submit the zip file for your tutor to review.