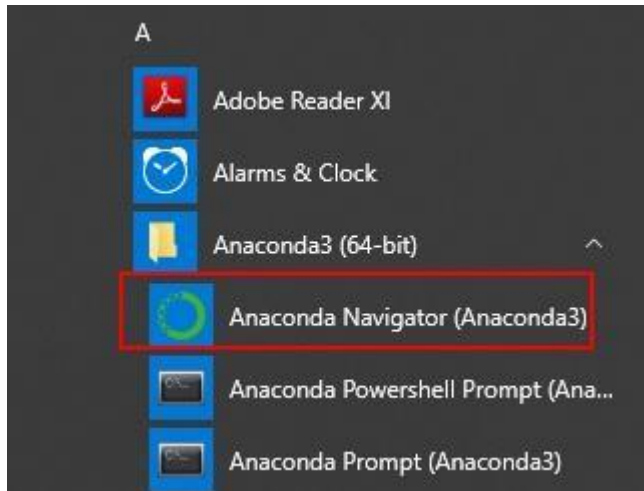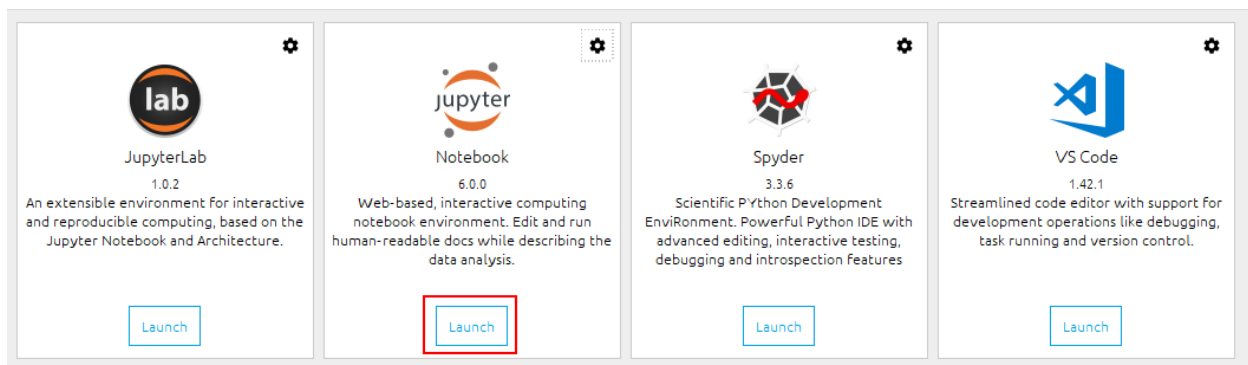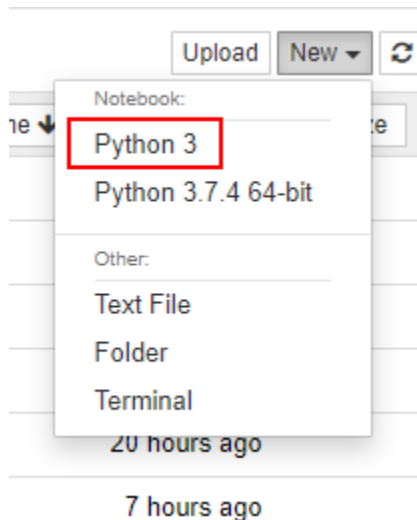# Module 5: Hands-On

Pandas Series

Step 1: Open Anaconda Navigator

Step 2: Click on Launch button under Jupyter notebooks.

Step 3: After the notebook opens click on new and Python 3.

```
                    Upload    New ▼    ↻
        Notebook:
ne ↓                                        te
        Python 3
        Python 3.7.4 64-bit

        Other:

        Text File
        Folder
        Terminal
        20 hours ago

        7 hours ago
```

Step 4: Import pandas by typing the following code in the notebook and run it by pressing shift + enter

```python
import pandas as pd
```

Step 5 Type the following code to create a pandas series using np.array with default index.

```python
In [10]:  # Create a pandas series using np.array with default index
          series = pd.Series(np.array([1, 2, 3, 4, 5, 6]))
          series

Out[10]:  0    1
          1    2
          2    3
          3    4
          4    5
          5    6
          dtype: int32
```

Step 6: Type the following code to create a pandas series using np.array with custom index.

```
In [11]:  # Create a pandas series using np.array with custom index
          series = pd.Series(np.array([1, 2, 3, 4, 5, 6]), index=['a', 'b', 'c', 'd', 'e', 'f'])
          series

Out[11]:  a    1
          b    2
          c    3
          d    4
          e    5
          f    6
          dtype: int32
```

Step 7: Type the following code to create a pandas series using a dictionary with default index.

```
In [12]:  # Create a pandas series using a dictionary with default index
          series = pd.Series({'x' : 0, 'y' : 1., 'z' : 2.})
          series

Out[12]:  x    0.0
          y    1.0
          z    2.0
          dtype: float64
```