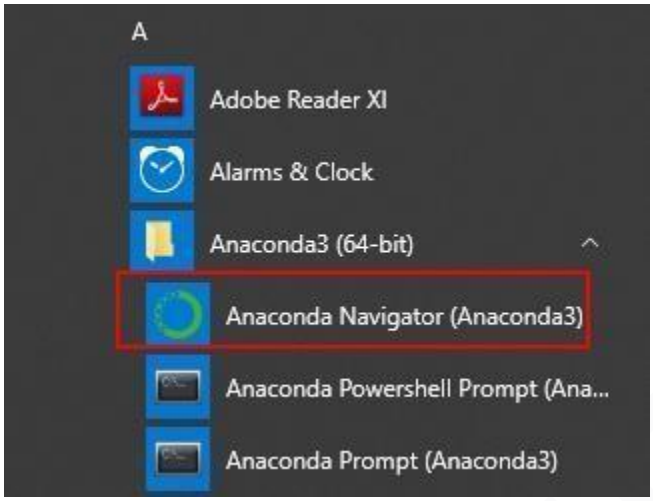
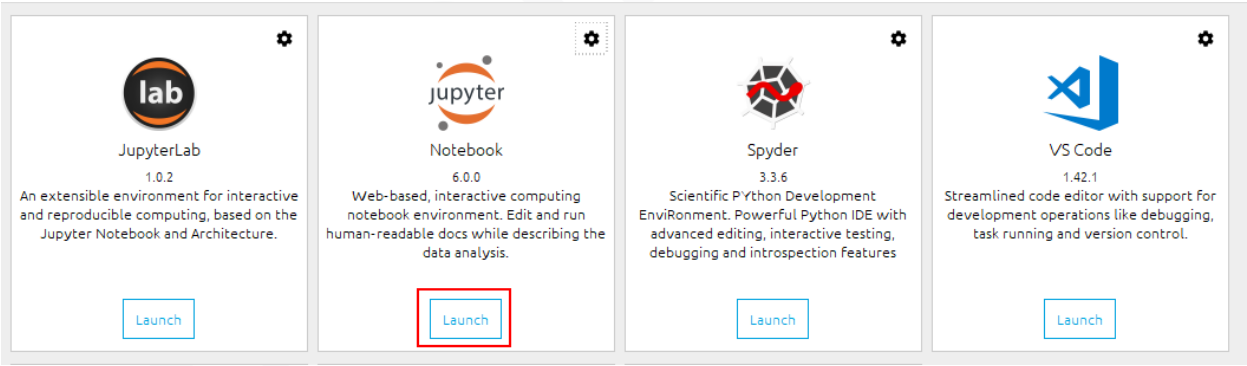
Module 6: Hands-On: 7

Create a Heatmap based on a matrix:

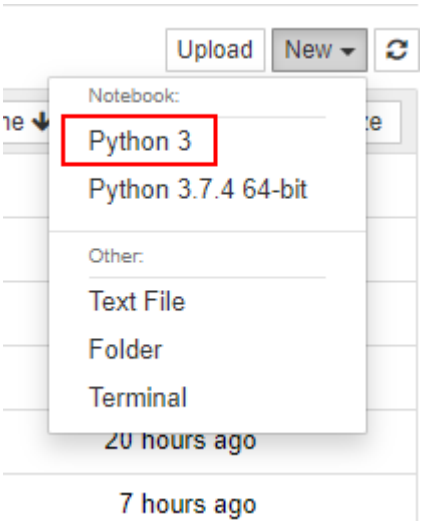
Step 1: Open Anaconda Navigator



Step 2: Click on Launch button under Jupyter Notebook



Step 3: After the notebook opens click on New and Python 3



Step 4: Import matplotlib.pyplot and seaborn by typing the following code in the notebook and run it by pressing shift + enter

```
In [1]: import matplotlib.pyplot as plt
        import seaborn as sns
```

Step 5: Run this code to create a heatmap based on a 2-d matrix

```
In [14]: data = [
             [99, 85, 15],
             [78, 5, 25],
             [90, 45, 35],
         ]

         sns.heatmap(data, annot=True)
```

Step 5.1: Run this code to create a 2-d matrix

```
In [14]: data = [
             [99, 85, 15],
             [78, 5, 25],
             [90, 45, 35],
         ]

         sns.heatmap(data, annot=True)
```

Step 5.2: Run this code to create a heatmap based on data passed as argument, the annot argument is set to true to get the data displayed in the heatmap cells

```
In [14]: data = [
             [99, 85, 15],
             [78, 5, 25],
             [90, 45, 35],
         ]

         sns.heatmap(data, annot=True)
```


Step 5.3: Run this code and analyze the output

```
Out[14]: <matplotlib.axes._subplots.AxesSubplot at 0x26c2cf6ec18>
```