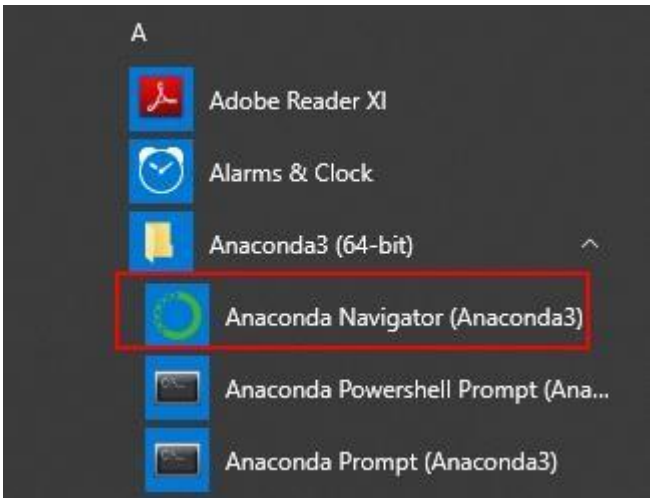
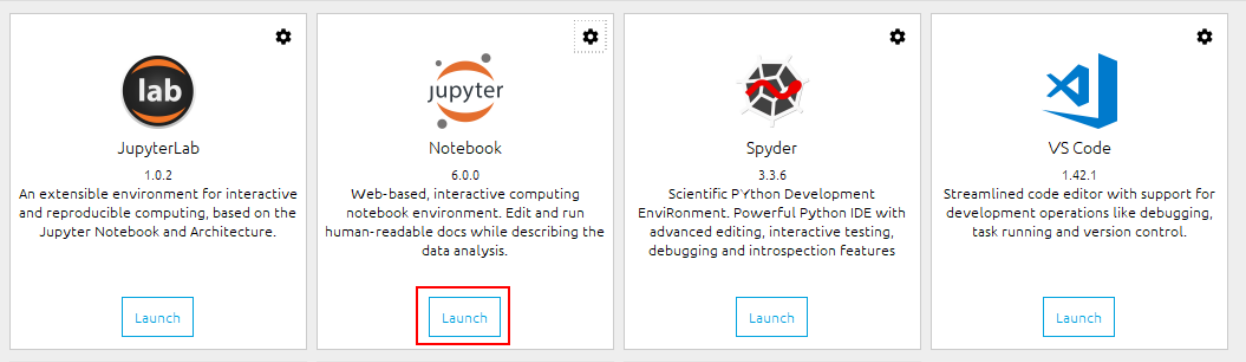
Module 4: Hands-On

Pandas Dataframe

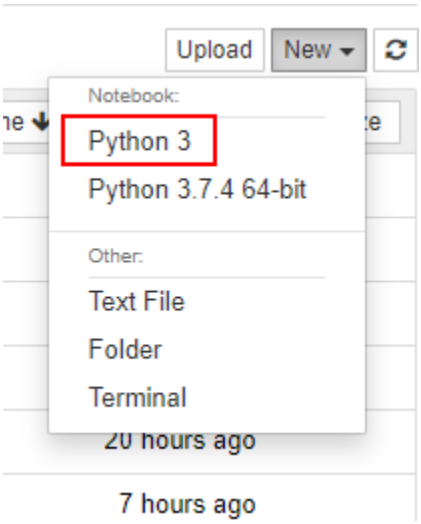
Step 1: Open Anaconda Navigator



Step 2: Click on Launch button under Jupyter notebooks.



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



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

```
import pandas as pd
```

Step 5 Type the following code to create a pandas dataframe using an array.

```
In [13]: ''' Pandas Dataframe '''
         # Create a dataframe using an array
         pd.DataFrame([1, 2, 3, 4, 5])
```

Out[13]:

	0
0	1
1	2
2	3
3	4
4	5

Step 6: Type the following code to create a pandas dataframe using an 2d array.

```
In [14]: # Create a dataframe using an 2d array
         data = [['John', 56], ['Johnny', 21], ['Joe',54]]
         df = pd.DataFrame(data,columns=['Name','Age'])
         df
```

Out[14]:

	Name	Age
0	John	56
1	Johnny	21
2	Joe	54

Step 7: Type the following code to create a pandas dataframe using a dictionary.

```
In [15]: # Create a dataframe using a dictionary
         df = pd.DataFrame({'Name':['Anthony', 'Jimmy', 'Dave', 'Ricky'],'Age': [35, 45, 40, 42]})
         df
```

Out[15]:

	Name	Age
0	Anthony	35
1	Jimmy	45
2	Dave	40
3	Ricky	42

Step 8: Type the following code to create a pandas dataframe by importing data from a csv file.

```
In [16]: # Import data from a csv file
         df = pd.read_csv('sample.csv')
         df
```

Out[16]:

	name	age
0	Name#1	11
1	Name#2	12
2	Name#3	13
3	Name#4	14