LAB Logbook

Lab 1

# Lab Logbook Requirement:

### *1) Create a vector using np.arange.*

***Determine the number of the vector elements using the following method: Take the last two digits from your SID. It should be from 00 to 99. If this number is 10 or more, it becomes the required number of the vector elements. If it is less than 10, add 100 to your number.***

***For example, if your SID is 2287467, and the last two digits are 67, which is greater than 10. The required number is 67. If your SID is 2287407, and the last two digits are 07, which is less than 10. The required number is 107.***

***Then,***

### *Change matrix a to 2-d array with 1 row. Print the array. You should have the two sets of brackets for a 2-d array with one row.*

### *Save it in another array. Print the array.*

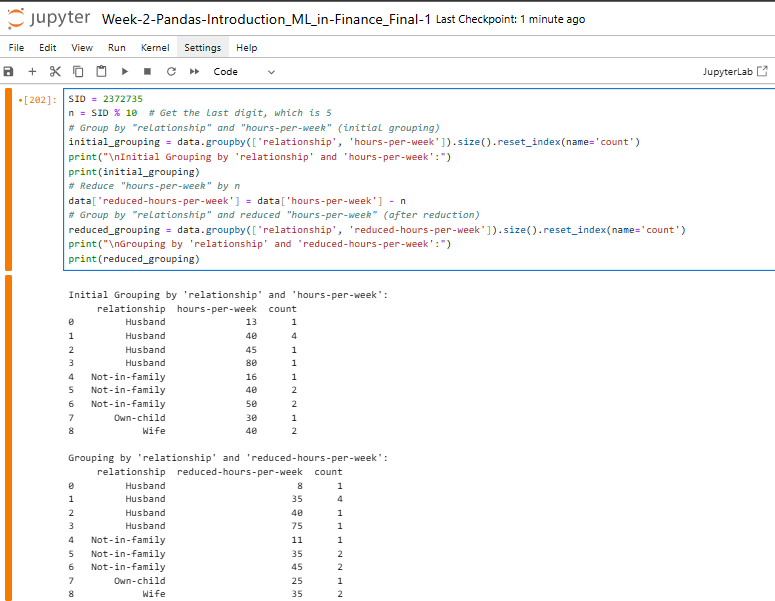
### *Check the shape attribute value.*

### *Solution:*

### Lab 2

**Lab Logbook Requirement:**[**¶**](http://localhost:8889/notebooks/Machine%20Learning%20in%20Finance/Week-2-Pandas-Introduction_ML_in-Finance_Final-1.ipynb?#Lab-Logbook-Requirement:)

1. ***Determine a number (n) equal to the last digit of your SID.***
2. ***Group by "relationship" and "hours-per-week".***
3. ***Reduce all "hours-per-week" column values ​​in the original DataFrame by the value 'n'.***
4. ***Group ​​by "relationship" and reduced "hours-per-week".***

***Solution:***

Lab 3

# Lab Logbook Requirement:

### *1) Draw a bicolour features interaction diagram between the columns with the numbers of the last and second to last digits of your SID, where:*

### C:\Users\SMART TECH\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\257D386D.tmp

### *Solution:*

Lab 4

Lab 5

Lab 6

Lab 7

Lab 8

Lab 9

Lab 10

Lab 11

Lab 12