**Homework – 8**

Create a function named ***My\_Intersect\_Name().* (1 point)**

Function inputs:

* Two independent number vectors of any length **(2 points)**

Function output:

* Vector of numbers in common to both input vectors (with no repeats). **(1 point)**
* Vector with index values for the common numbers in the first input vector. **(1 point)**
* Vector with index values for the common numbers in the second input vector. **(1 point)**

Notes:

* You can’t use any existing matlab functions
* You are allowed to use any other supplementary functions you create yourself (do not forget to turn them in as well)
* Number vector and index vector don’t have to be the same length. If the number 4 is common to both input vectors but appears more than once in one of them, it will appear once in the number vector output, but all its location indexes will appear in the index vector.
* The script should run and execute all of the mentioned above with F5 key. **(4 points)**