# CS 115 - Introduction to Programming in Python

# Lab Guide 06B

**Lab Objectives:** Learning Jupyter, two-dimensional lists, numpy, arrays.

1. Write a function **findMatches()** that takes a two-dimensional list of characters (inList)and a String (searchWord) as parameters. For each row in the 2D array, the method should build a String word with the characters in the current row. If the new word contains the String passed as a parameter, it should be added to a list of Strings (foundWords). The function should return the list containing the matching Strings. **Note:** your function should work for a 2D array of ***any*** size.

Write a program to test your function. A sample run is shown below.

**Sample Run:**

Two Dimensional List:

['i', 't', 'a', 'l', 'y']

['t', 'r', 'e', 'e', 's']

['b', 'r', 'i', 't', 'e']

['s', 'u', 'd', 'a', 'n']

Matching words: ['italy', 'brite']

1. Download the file, **Lab06BQ2.pdf**, and create a Jupyter Notebook file that has the appearance and functionality of the given pdf.
2. Download the file, **Lab06BQ3.ipynb**, and complete the question given in the notebook.