# Sathish_K_Rajendiran_Week4_Async_4.4_Numeric_Arrays

July 23, 2020

Week 4.2 – Functions Activity

Name: Sathish Kumar Rajendiran
Task: 4.4 Numeric Arrays
Date: 7/23/2020

[15]:
```
# Generate a numpy array of size 4 by 5.

# [1,2,3,4,5], [6,7,8,9,10], [11,12,13,14,15], [16,17,18,19,20]

# a. Use Index Slicing and show how to get the subarray consisting of the last two rows and the third and fourth columns.

# b. Show how to create a one-dimensional array that sums the columns

# Submit your solution in a single file.

import numpy as np

arr_1 = np.array([[1, 2, 3, 4, 5],
                  [6, 7, 8, 9, 10],
                  [11, 12, 13, 14, 15],
                  [16, 17, 18, 19, 20]])

arr_1

# a. Use Index Slicing and show how to get the
#     subarray consisting of the last two rows
#     and the third and fourth columns.

arr_sliced = arr_1[2:, 3:]
print("sliced array by last two rows of the thir and fourth columns", arr_sliced)
```

```
sliced array by last two rows of the thir and fourth columns [[14 15]
 [19 20]]
```

[14]:
```
# b. Show how to create a one-dimensional array that sums the columns

sum_arr = np.sum(arr_1, axis = 0)

print("sliced array by last two rows of the thir and fourth columns", sum_arr)
```

```
sliced array by last two rows of the thir and fourth columns [34 38 42 46 50]
```