

# **Lab 1**

## **ECSE210L**

1. Explore Go lang. Array operation, for loop, for loop with conditions (in place of while loop),
2. Design a code for Insertion sorting in Go lang. Algorithm for reference is given below:

```
Insertion_sort(A)
  For i = 2: A.length
    key = A[i]
    j = i-1
    while ( A[j]>0 and A[j]<key)
      A[j+1] = A[j]
      j = j-1
    A[j+1] = key
```

3. Revise the concept of Data structure.  
Cost of searching, insertion, deletion in sorted array,  
link-list, binary search tree (worst case)