## Lab 4

#### **Question:1**

Implement Stack using Python.

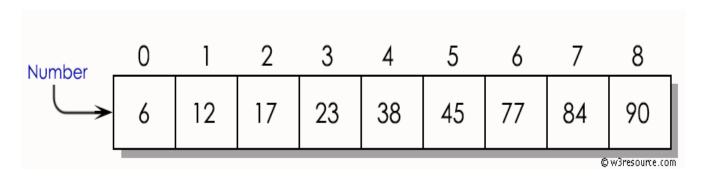
### **Question:2**

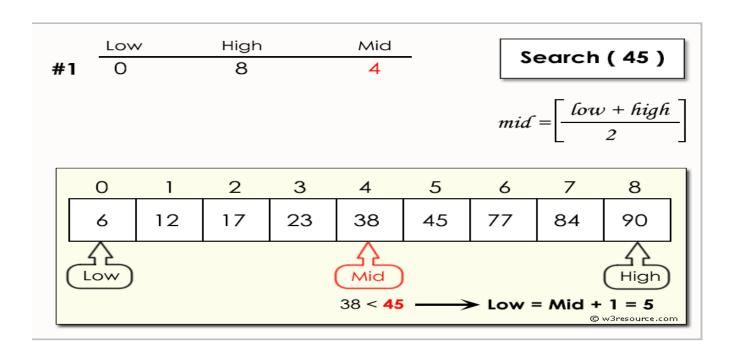
Implement Queue using Python.

#### **Question:3**

In computer science, a binary search or half-interval search algorithm finds the position of a target value within a sorted array. The binary search algorithm can be classified as a dichotomies divide-and-conquer search algorithm and executes in logarithmic time.

#### **Step by step Example:**





# Search (45)

$$mid = \left[ \frac{low + high}{2} \right]$$

