Practice 01:

Implementation of Linear Search in python

Code:

**def** search(arr, search\_Element):

    left **=** 0

    length **=** len(arr)

    position **=** **-**1

    right **=** length **-** 1

**for** left **in** range(0, right, 1):

**if** (arr[left] **==** search\_Element):

            position **=** left

**print**("Element found in Array at ", position **+**

                  1, " Position with ", left **+** 1, " Attempt")

**break**

**if** (arr[right] **==** search\_Element):

            position **=** right

            print("Element found in Array at ", position **+** 1,

                  " Position with ", length **-** right, " Attempt")

**break**

        left **+=** 1

        right **-=** 1

**if** (position **==** **-**1):

        print("Not found in Array with ", left, " Attempt")

# Main Function

arr **=** [1, 2, 3, 4, 5]

search\_element **=** 5

search(arr, search\_element)