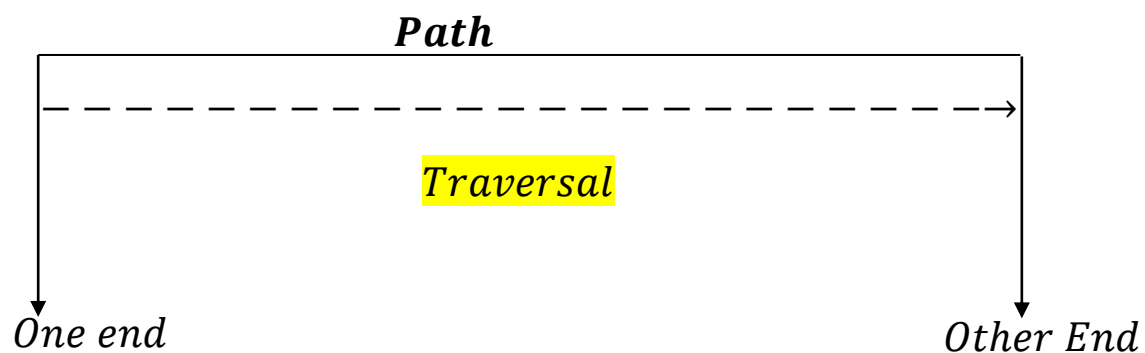# 3. TRAVERSAL OF ARRAYS

Traversal is a word that comes from graph representation.

It means moving from one end of a path to another.

Path

Traversal

One end   Other End

Array Traversal looks like:

```cpp
// Array Traversal
    for (int i = 0; i < size; i++)
    {
        cout << a[i] << endl;


    }
```

TIME COMPLEXITY

We see that Array traversal proceeds from:

$$a[0] - -O(1)$$
$$a[1] - -O(1)$$
$$a[2] - -O(1)$$

.....

$$a[n] - -O(1)$$

Therefore if $1 + 1 + 1 + \cdots . + n$ *times gives*: $O(n)$