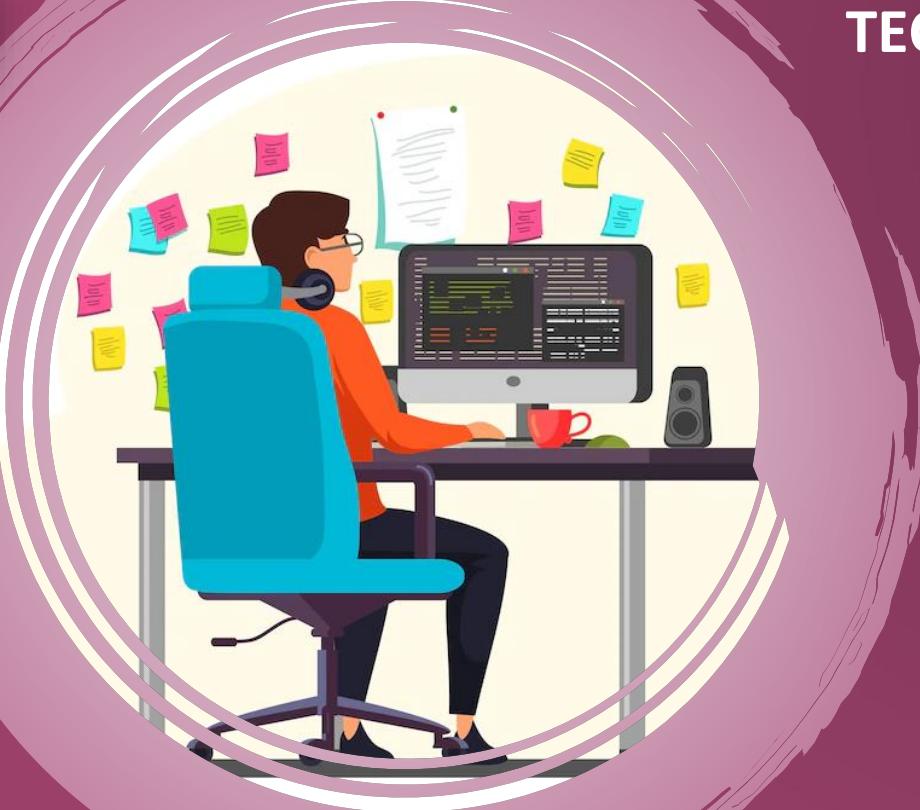




TAMILNADU ADVANCED
TECHNICAL TRAINING INSTITUTE



PYTHON

Array

An array is defined as a collection of items that are stored at contiguous memory locations. It is a container which can hold a fixed number of items, and these items should be of the same type.

Operations

- Traverse
- Insertion
- Deletion
- Search
- Update

Programs

```
import array as arr  
a = arr.array('i', [1, 2, 3])  
  
# printing original array  
print ("The new created array is : ", end = " ")  
for i in range (0, 3):  
    print (a[i], end = " ")  
print()
```

Programs

```
import array as arr  
a = arr.array('i', [1, 2, 3])  
print ("Array before insertion : ", end = " ")  
for i in range (0, 3):  
    print (a[i], end = " ")  
print()  
a.insert(1, 4)  
print ("Array after insertion : ", end = " ")  
for i in (a):  
    print (i, end = " ")
```

Programs

```
import array as arr  
b = arr.array('d', [2.5, 3.2, 3.3])  
print ("Array before insertion : ", end = " ")  
for i in range (0, 3):  
    print (b[i], end = " ")  
print()  
b.append(4.4)  
print ("Array after insertion : ", end = " ")  
for i in (b):  
    print (i, end = " ")
```

Programs

```
import array as arr

# array with int type
a = arr.array('i', [1, 2, 3, 4, 5, 6])

print("Access element is: ", a[0])

print("Access element is: ", a[3])
```

Programs

```
import array  
arr = array.array('i', [1, 2, 3, 1, 5])  
print ("The new created array is : ", end = "")  
for i in range (0, 5):  
    print (arr[i], end = " ")  
print ("The popped element is : ", end = "")  
print (arr.pop(2))  
arr.remove(1)  
print ("The array after removing is : ", end = "")  
for i in range (0, 2):  
    print (arr[i], end = " ")
```