

Arrays basics-

```
arrays1.ts X
arrays1.ts > ...
1  let names:string[]=['tom','riddle']
2  console.log(names) //[ 'tom', 'riddle' ]
3  console.log(names[0]) //tom
4
```

```
arrays2.ts X
arrays2.ts > ...
1  //using generics
2
3  let n1:Array<string>=['tom','riddle','peter']
4  let n2:Array<number>=[324234, -34324, 34234.234, -34324.3434]
5  let n3:Array<boolean>=[true, false]
6  let n4:Array<any>=['t', "lion", -23434.42234, 23324324.32434 ,32434, -32434, true, null, undefined]
7
8  console.log(n1) //[ 'tom', 'riddle', 'peter' ]
9  console.log(n2) //[ 324234, -34324, 34234.234, -34324.3434 ]
10 console.log(n3) //[ true, false ]
11 console.log(n4) //[ 't', 'lion', -23434.42234, 23324324.32434, 32434, -32434, true, null, undefined]
```

```
arrays3.ts X
arrays3.ts > ...
1  //multi type array
2
3  let values:(string | number)[]=['tom', 't', 256, -56, -56.78, 334.344]
4
5  let v2:Array<string | boolean>=['t', 'tom', true]
6
7  console.log(values) //[ 'tom', 't', 256, -56, -56.78, 334.344 ]
8  console.log(v2) //[ 't', 'tom', true ]
```

```
arrays4.ts X
arrays4.ts > ...
1 //first declare array then initialise.
2
3 let users:Array<string>
4 users=['tom', 't']
5
6 console.log(users) //[ 'tom', 't' ]
```

```
arrays5.ts X
arrays5.ts > ...
1 //iterate array using index based for loop.
2
3 // let e1:Array<string>=['tata', 't', null, undefined]
4 //Type 'null' is not assignable to type 'string'.ts(2322)
5 //Type 'undefined' is not assignable to type 'string'.ts(2322)
6
7
8 let e1:Array<string>=['tata', 't', 'john', 'cena']
9
10 for (let index = 0; index < e1.length; index++) {
11     console.log(e1[index])
12 }
13
14 // tata
15 // t
16 // john
17 // cena
```

Prints index-

```
arrays6.ts X
arrays6.ts > ...
1 //use for in loop.
2 //prints index not values.
3
4 let e1:Array<string>=['tata', 't', 'john', 'cena']
5
6 for (const key in e1) {
7     console.log(key)
8 }
9
10 // 0
11 // 1
12 // 2
13 // 3
```

Prints value

```
arrays7.ts X
arrays7.ts > ...
1 //for in loop to print values.
2
3 let e1: Array<string> = ['tata', 't', 'john', 'cena']
4
5 for (const key in e1) {
6     console.log(e1[key])
7 }
8
9 // tata
10 // t
11 // john
12 // cena
```

Index plus value

...

arrays8.ts X

arrays8.ts > ...

```
1 //for in loop to print index and values.
2
3 let e1: Array<string> = ['tata', 't', 'john', 'cena']
4
5 for (const key in e1) {
6     console.log(key + " : : " + e1[key])
7 }
8
9 // 0:::tata
10 // 1:::t
11 // 2:::john
12 // 3:::cena
13
```