

## Experiment No:02

```
index.html | ex.ts | ex.js
ex.ts > ...
1  var a:string="Hello world";
2  console.log(a)
3
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL
● student@IT-526-06:~/Adivi$ tsc ex.ts
● student@IT-526-06:~/Adivi$ node ex.js
Hello world
○ student@IT-526-06:~/Adivi$
```

```
index.html > html
1  <!DOCTYPE html>
2  <html>
3      <head>
4          <title>hello world</title>
5      </head>
6      <body>
7          <script src="ex.js"></script>
8      </body>
9  </html>
```

```
Filter Output
Hello world
>>
```

```
TS array.ts > ...
1  let b:number | string=10;
2  console.log(b)
3
```

```
C:\Typescript>tsc array.ts
C:\Typescript>node array.js
10
```

```
export {}
let b:number[]=[10,20,30]
console.log(b);
```

```
C:\Typescript>tsc array.ts
C:\Typescript>node array.js
[ 10, 20, 30 ]
```

```
export {}
let b:(string|number)[]=["hello",3]
b.push("world")
console.log(b)
```

```
C:\Typescript>tsc array.ts
C:\Typescript>node array.js
[ 'hello', 3, 'world' ]
```

```
export {}
let b:any=[10,30,"a"]
b.push("b")
console.log(b)
```

```
C:\Typescript>tsc array.ts
C:\Typescript>node array.js
[ 10, 30, 'a', 'b' ]
```

```
export {}
let b:any=[10,20,30,"b"]
b.push(true)
console.log(b)
```

```
C:\Typescript>tsc array.ts
C:\Typescript>node array.js
[ 10, 20, 30, 'b', true ]
```

```
export {}
function test()
{
    console.log("hello");
}
test();
```

C:\Typescript>tsc array.ts

C:\Typescript>node array.js  
hello

```
export {}
function test(a:number,b:number):number
{
    return a+b
}
console.log(test(10,20));
```

C:\Typescript>tsc array.ts

C:\Typescript>node array.js  
30

```
export {}
function test (a:number,b?:number):number
{
    return b?a+b:a
}
console.log(test(20));
```

C:\Typescript>tsc array.ts

C:\Typescript>node array.js  
20

```
export {}
function test (a:number,b?:number):number
{
    return b?a+b:a
}
console.log(test(30,20));
```

C:\Typescript>tsc array.ts

C:\Typescript>node array.js  
50

```
export {}
var x=
{name:"test",
roll:3
}
console.log(x)
```

C:\Typescript>tsc array.ts

C:\Typescript>node array.js  
{ name: 'test', roll: 3 }

```
export {}
let a:number[]=[10,20]
console.log(a[0])
console.log(a[1]
)
```

C:\Typescript>tsc array.ts

C:\Typescript>node array.js  
10  
20

```
export {}
let b:string=["apple","orange","grapes"];
function test(b):string
{
    return b;
}
console.log(test(b));
```

C:\Typescript>tsc array.ts

C:\Typescript>node array.js  
[ 'apple', 'orange', 'grapes' ]

```
export{}
interface y
{
    name:string,
    roll:number
}
var x:y=
{
    name:"test",
    roll:3
}
console.log(x);
```

```
C:\Typescript>tsc array.ts
```

```
C:\Typescript>node array.js
{ name: 'test', roll: 3 }
```

```
export{}
let b:string[]=["apple","orange","grapes"];
function test(c):any
{
    for(let i=0;i<c.length;i++)
        console.log(c[i]);
}
test(b);
```

```
C:\Typescript>node array.js
apple
orange
grapes
```