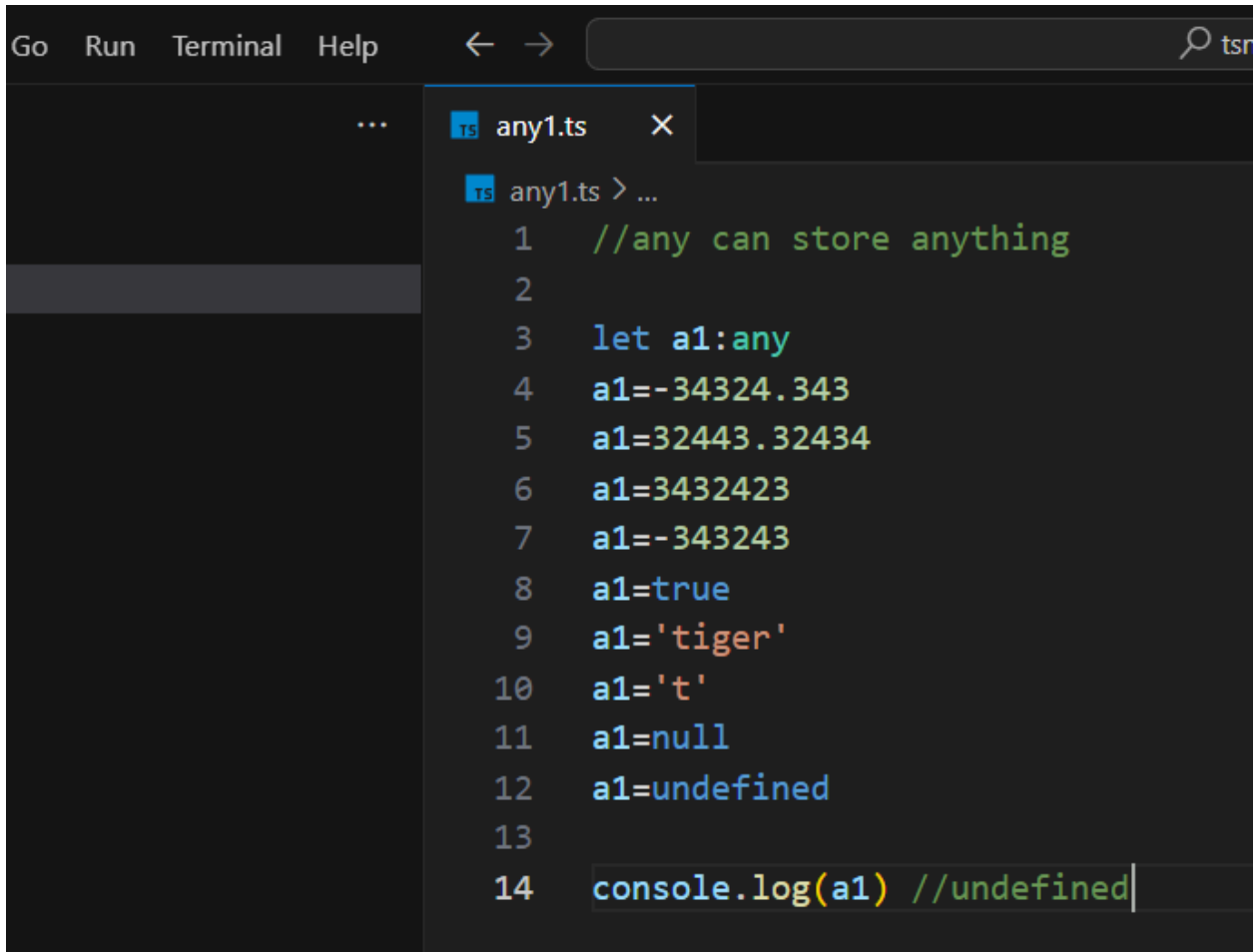


Any

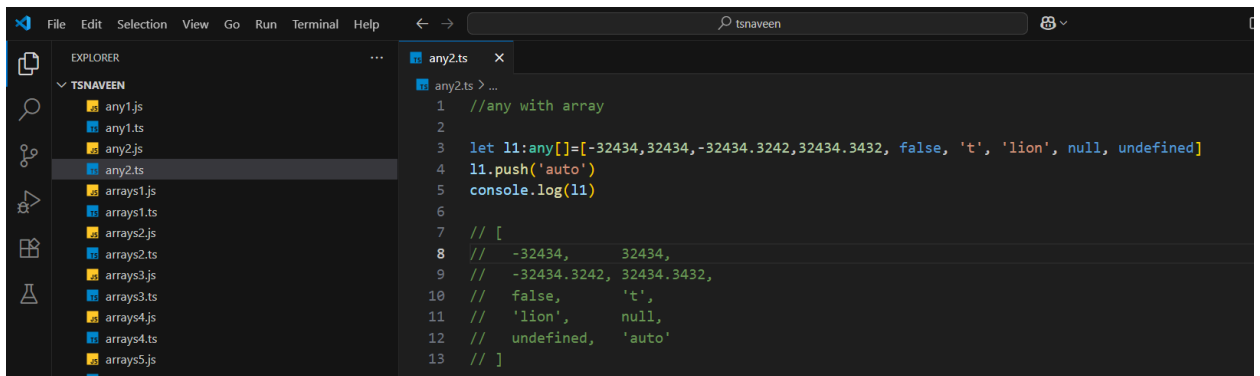


```
Go Run Terminal Help < >  tsr
```

```
... TS any1.ts X
```

```
TS any1.ts > ...  
1 //any can store anything  
2  
3 let a1:any  
4 a1=-34324.343  
5 a1=32443.32434  
6 a1=3432423  
7 a1=-343243  
8 a1=true  
9 a1='tiger'  
10 a1='t'  
11 a1=null  
12 a1=undefined  
13  
14 console.log(a1) //undefined
```

Any with array



```
File Edit Selection View Go Run Terminal Help < >  tsnaveen
```

```
EXPLORER  
TSNAVEEN  
any1.js  
any1.ts  
any2.js  
any2.ts  
arrays1.js  
arrays1.ts  
arrays2.js  
arrays2.ts  
arrays3.js  
arrays3.ts  
arrays4.js  
arrays4.ts  
arrays5.js  
arrays5.ts
```

```
TS any2.ts X
```

```
TS any2.ts > ...  
1 //any with array  
2  
3 let l1:any[]=[-32434,32434,-32434.3242,32434.3432, false, 't', 'lion', null, undefined]  
4 l1.push('auto')  
5 console.log(l1)  
6  
7 // [  
8 //   -32434,      32434,  
9 //   -32434.3242, 32434.3432,  
10 //   false,      't',  
11 //   'lion',     null,  
12 //   undefined,  'auto'  
13 // ]
```

Any with function

```
... any3.ts
any3.ts > ...
1 //any with function
2
3 function add(a:number, b:number):any{
4     if(a>b){
5         return true
6     }
7     else{
8         return 123
9     }
10 }
11
12 let i1=add(1234324,-32432.324324)
13 console.log(i1) //true
```

Void
Cant hold anything.

```
... void1.ts 3 x
void1.ts > ...
1 //cant hold anything except undefined.
2
3 let a1:void='tiger' //Type 'string' is not assignable to type 'void'.ts(2322)
4
5 let a2:void=-324324.32434 //Type 'number' is not assignable to type 'void'.ts(2322)
6
7 let a3:void=true //Type 'boolean' is not assignable to type 'void'.ts(2322)
```

Null also not allowed. Undefined allowed.

```
... void1.ts 4 void2.ts 2 X
void2.ts > ...
1 //void cannot store null values.
2
3 let a1:void=null //Type 'null' is not assignable to type 'void'.ts(2322)
```

```
... void3.ts
void3.ts > ...
1 //void can store undefined
2
3 let a1:void=undefined
4 console.log(a1) //undefined.
5
```

Void with function

Void and return cannot come together.

```
... void3.ts void4.ts 1 X
void4.ts > getinfo
1 //void and return cannot come together.
2
3 function getinfo(mess:string):void{
4     return 1 //Type 'number' is not assignable to type 'void'.ts(2322)
5 }
```

```
... void5.ts X
void5.ts > ...
1 //void with function
2
3 function getinfo(mess:string):void{
4     console.log("hello")
5 }
6
7 getinfo('star') //hello
8
9 // getinfo(); //Expected 1 arguments, but got 0.ts(2554)
```

Blank return allowed

```
... void5.ts 1 void6.ts X
void6.ts > ...
1 //blank return allowed.
2
3 function getinfo(mess:string):void{
4     console.log("hello")
5     return
6     console.log("byee") //Unreachable code detected.ts(7027)
7 }
8
9
10 getinfo("tara") //hello
```

Never

```
... never1.ts 3
never1.ts > ...
1 //never cannot store anything.
2
3 let a1:never=324324 //Type '324324' is not assignable to type 'never'.ts(2322)
4
5 let a2:never=false //Type 'false' is not assignable to type 'never'.ts(2322)
6 let a3:never='tiger' //Type '"tiger"' is not assignable to type 'never'.ts(2322)
```

```
... never2.ts 1 X
never2.ts > ...
1 //never cannot be assigned to null
2
3 let a1:never=null //Type 'null' is not assignable to type 'never'.ts(2322)
```

```
... never3.ts 1 X
never3.ts > ...
1 //never cannot be assigned to undefined.
2
3 let a1:never=undefined //Type 'undefined' is not assignable to type 'never'.ts(2322)
```

No values can be assigned or returned from never.

Never with functions-
No return allowed

```
... never4.ts 1 X
never4.ts > ...
1 //never with functions.
2
3 function getinfo(mess:string):never{
4     console.log("hello")
5 }
6 //A function returning 'never' cannot have a reachable end point.ts(2534)
7
8 getinfo("titanic")
```

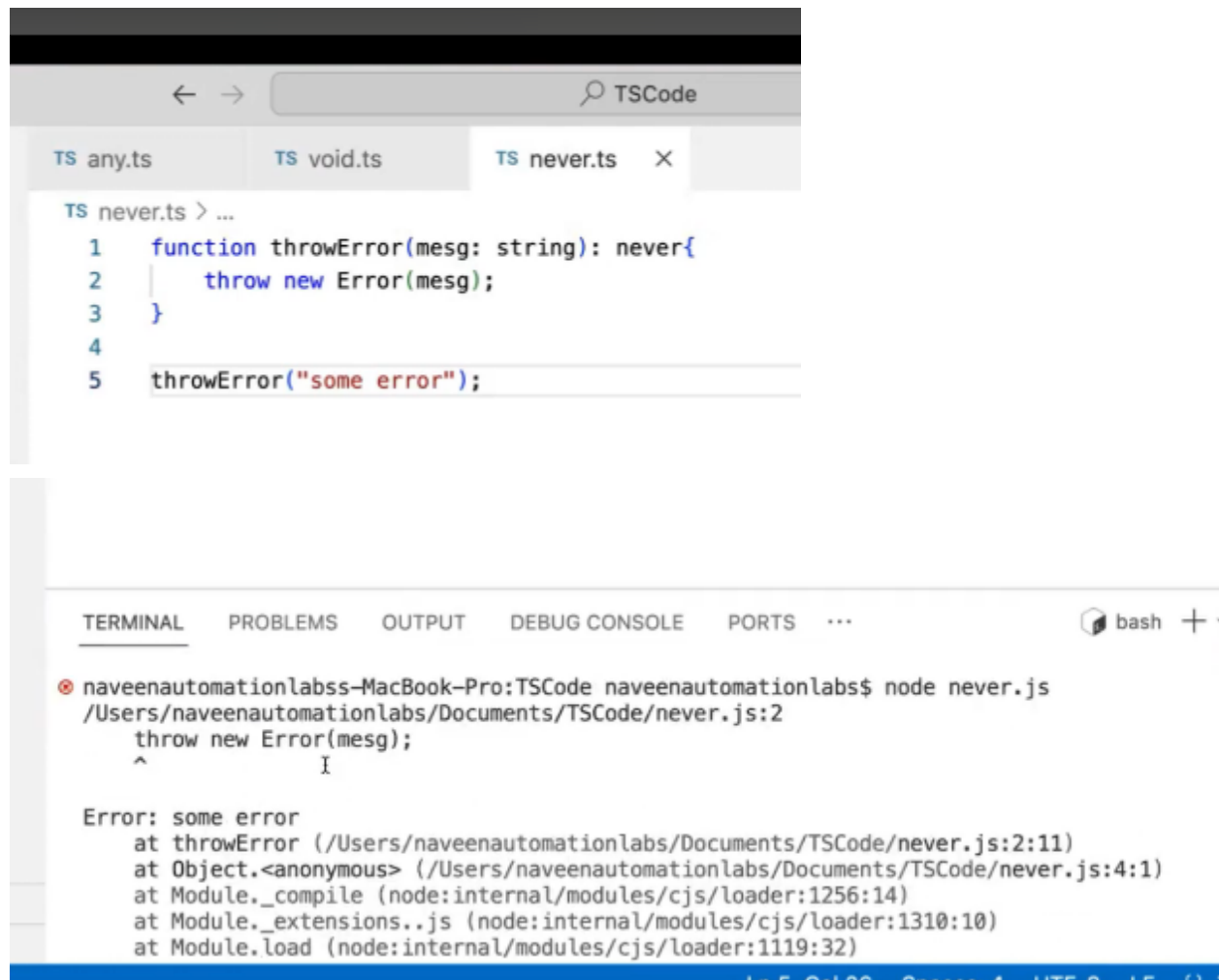
```
... never5.ts 1 X
never5.ts > ...
1 //never with functions.
2
3 function getinfo(mess:string):never{
4     console.log("hello")
5     return 123 //Type '123' is not assignable to type 'never'.ts(2322)
6 }
7
8 console.log(getinfo("titanic"))
```

```
... never6.ts 1 X
never6.ts > getinfo
1 //never with functions.
2
3 function getinfo(mess:string):never{
4     console.log("hello")
5     return //Type 'undefined' is not assignable to type 'never'.ts(2322)
6 }
7
8 console.log(getinfo("titanic"))
```

```
... never6.ts 2 never7.ts 1 X
never7.ts > getinfo
1 //never with functions.
2
3 function getinfo(mess:string):never{
4     console.log("hello")
5     return undefined //Type 'undefined' is not assignable to type 'never'.ts(2322)
6 }
7
8 console.log(getinfo("titanic"))
```

```
... never6.ts 2 never7.ts 2 never8.ts 1 X
never8.ts > getinfo
1 //never with functions.
2
3 function getinfo(mess:string):never{
4     console.log("hello")
5     return null //Type 'null' is not assignable to type 'never'.ts(2322)
6 }
7
8 console.log(getinfo("titanic"))
```

Not used much



The screenshot shows the VS Code editor interface. At the top, there are tabs for 'any.ts', 'void.ts', and 'never.ts'. The 'never.ts' tab is active, showing the following code:

```
1 function throwError(msg: string): never{
2     throw new Error(msg);
3 }
4
5 throwError("some error");
```

Below the editor, the 'TERMINAL' panel is open, showing the command 'node never.js' and its output:

```
naveenautomationlabss-MacBook-Pro:TSCode naveenautomationlabs$ node never.js
/Users/naveenautomationlabs/Documents/TSCode/never.js:2
    throw new Error(msg);
    ^
Error: some error
    at throwError (/Users/naveenautomationlabs/Documents/TSCode/never.js:2:11)
    at Object.<anonymous> (/Users/naveenautomationlabs/Documents/TSCode/never.js:4:1)
    at Module._compile (node:internal/modules/cjs/loader:1256:14)
    at Module._extensions..js (node:internal/modules/cjs/loader:1310:10)
    at Module.load (node:internal/modules/cjs/loader:1119:32)
```

Used for infinite while loop

```
7 function displayMesg(): never{
8     while(true){
9         console.log("welcome to Taj Hotel");
10    }
11 }
12
13 displayMesg();
```

PROBLEMS 7

[illegible]