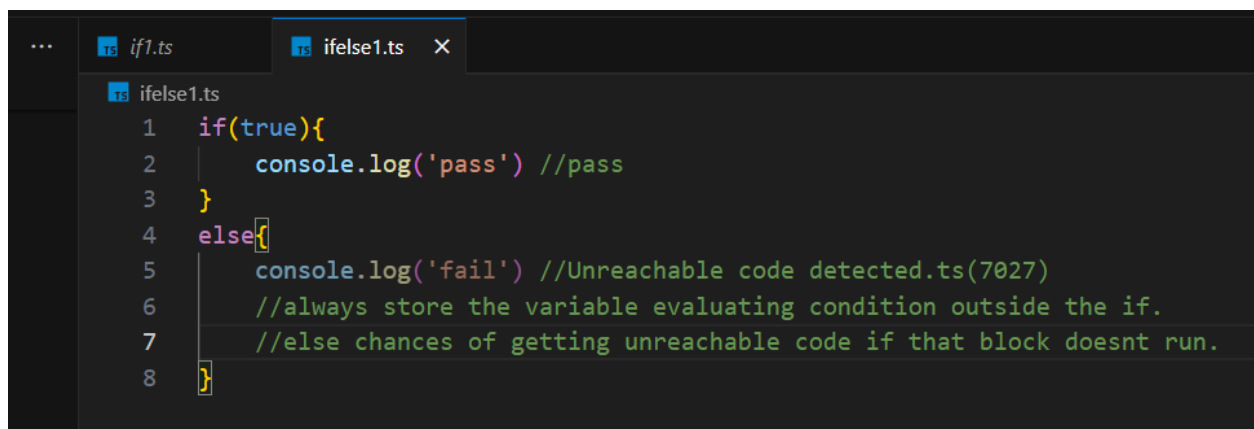


A screenshot of the Visual Studio Code editor interface. The top bar shows a search icon and a file explorer icon. The editor window displays a file named `if1.ts`. The code inside the file is as follows:

```
1  if(true){
2      console.log("pass") //pass
3  }
```



A screenshot of the Visual Studio Code editor interface. The top bar shows a search icon and a file explorer icon. The editor window displays a file named `ifelse1.ts`. The code inside the file is as follows:

```
1  if(true){
2      console.log('pass') //pass
3  }
4  else{
5      console.log('fail') //Unreachable code detected.ts(7027)
6      //always store the variable evaluating condition outside the if.
7      //else chances of getting unreachable code if that block doesnt run.
8  }
```

```
... if1.ts x ifelse1.ts ifelse2.ts 2 ●
ifelse2.ts > ...
1 //keep the condition checker variable outside always.
2 //not allowing to use == or === checker here.
3
4 let flag:boolean=false;
5
6 if(flag===true){ //This comparison appears to be unintentional
7 // because the types 'false' and 'true' have no overlap.ts(2367)
8     console.log('pass')
9 }
10
11
12 if(flag==true){ //This comparison appears to be unintentional
13 // because the types 'false' and 'true' have no overlap.ts(2367)
14     console.log('pass')
15 }
```

```
... ifelse3.ts x
ifelse3.ts > ...
1 //keep the condition checker variable outside always.
2
3 let flag:boolean=false;
4
5 if(flag){
6     console.log('pass')
7 }
8 else{
9     console.log('fail') //fail
10 }
```

```
... ifelse3.ts ifelse4.ts X
ifelse4.ts > ...
1 let x:number=10;
2 let y:number=20
3
4 if(x>y){
5     console.log('x is greater than y')
6 }
7 else{
8     console.log(`y is greater than x`) //y is greater than x
9 }
```

If else if conditions-

Check how and and or (||) will be written in js or ts.

```
16
17 //if-else if:
18 let a: number = 100;
19 let b: number = 200;
20 let c: number = 300;
21
22 if(a>b && a>c){//false && false
23     console.log("a is greatest");
24 }
25 else if(b>c){
26     console.log("b is greatest");
27 }
28 else{
29     console.log("c is greatest");
30 }
```

```
... ifelse3.ts ifelse4.ts ifelse5.ts X
ifelse5.ts > ...
1 //greatest of three numbers.
2
3 let a:number=3244.3243
4 let b:number=-3443.324
5 let c:number=32434
6
7 if(a>b && a>c){
8     console.log(`a is greatest`)
9 }
10 else if(b>c){
11     console.log(`b is greatest`)
12 }else{
13     console.log(`c is greatest`) //c is greatest
14 }
```

```
... ternary2.ts X
ternary2.ts > ...
1 //ternary in if-else-if form.
2
3 let browser:string='ff'
4
5 browser==='chrome'?console.log("chrome"):browser==='ff'?console.log('firefox'):console.log('edge')
6 //firefox
```

If else with or condition—

```
Help < > tsnaveen

... ifelse6.ts x

ifelse6.ts > ...

1 //greatest of three numbers.
2
3 let a:number=3244.3243
4 let b:number=-3443.324
5 let c:number=32434
6
7 if(a>b || a>c){
8     console.log(`a is greatest`) //a is greatest
9 }
10 else if(b>c){
11     console.log(`b is greatest`)
12 }else{
13     console.log(`c is greatest`)
14 }
```

Ocd-

