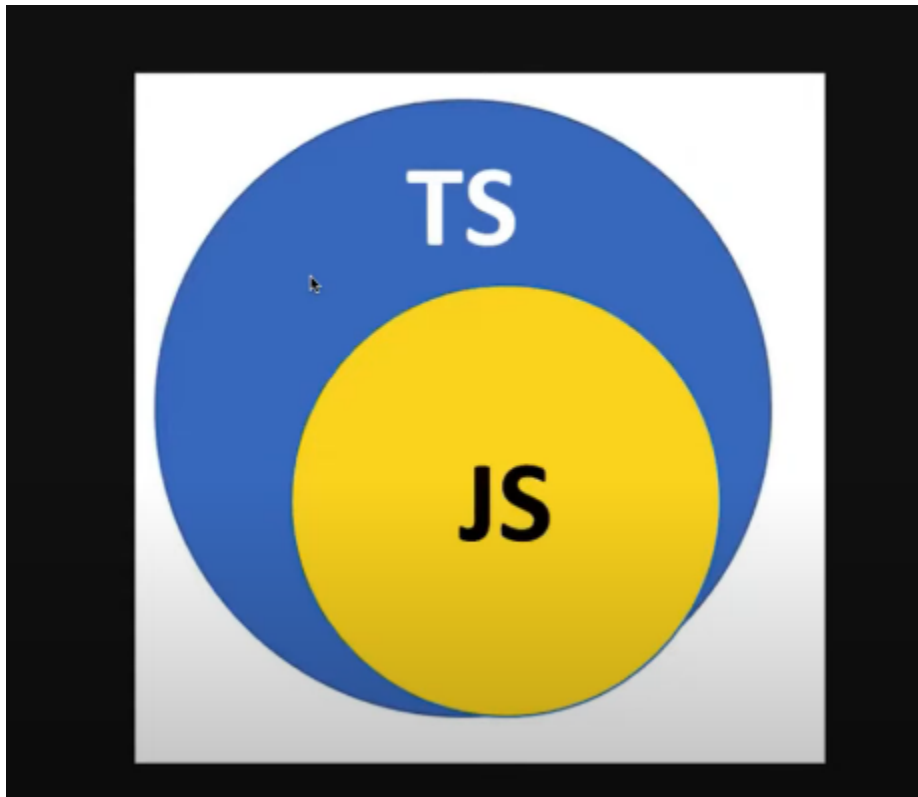


Super set of js.



Problem with js -

Run time language.

When we run then we know error.

Ts-

Compile time language like java. At compile time we get the errors.

Check ts is available or not-

```
C:\Users\karan>tsc -v
'tsc' is not recognized as an internal or external command,
operable program or batch file.
```

When ts is not present-

```
C:\Users\karan>tsc -v
'tsc' is not recognized as an internal or external command,
operable program or batch file.
```

Check node version-

```
C:\Users\karan>node -v
v18.20.8

C:\Users\karan>npm -v
10.8.2

C:\Users\karan>|
```

Different ways to check version-

```
C:\Users\karan>tsc -v
Version 5.8.3

C:\Users\karan>node -v
v18.20.8

C:\Users\karan>npm -v
10.8.2

C:\Users\karan>tsc --version
Version 5.8.3

C:\Users\karan>node --version
v18.20.8

C:\Users\karan>npm --version
10.8.2

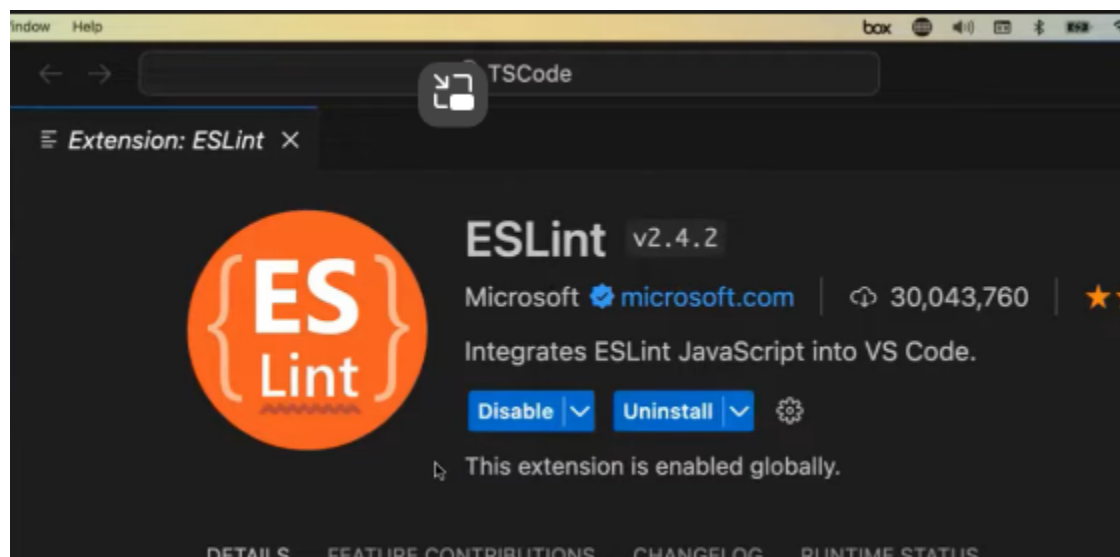
C:\Users\karan>|
```

Install ts-

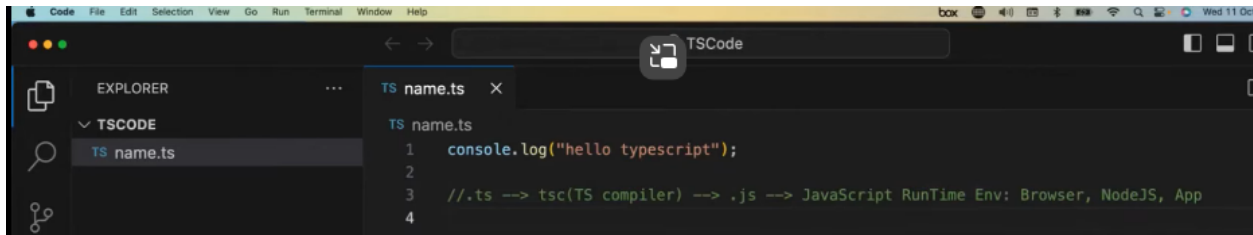
```
C:\Users\karan>cd C:\Users\karan\Desktop\tsNaveen  
C:\Users\karan\Desktop\tsNaveen>npm install -g typescript  
added 1 package in 3s  
C:\Users\karan\Desktop\tsNaveen>
```

```
C:\Users\karan\Desktop\tsNaveen>tsc -v  
Version 5.8.3  
C:\Users\karan\Desktop\tsNaveen>
```

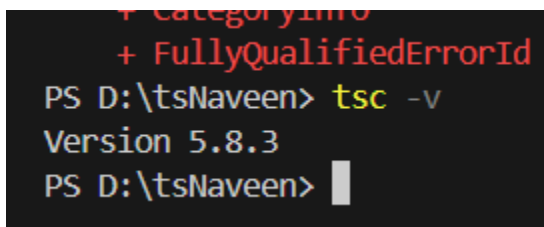
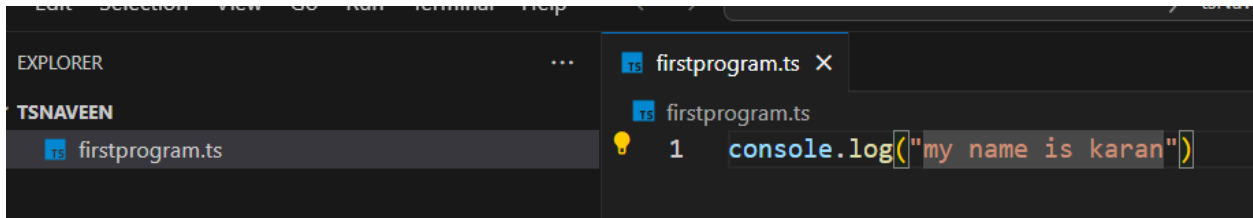
Eslint extension-



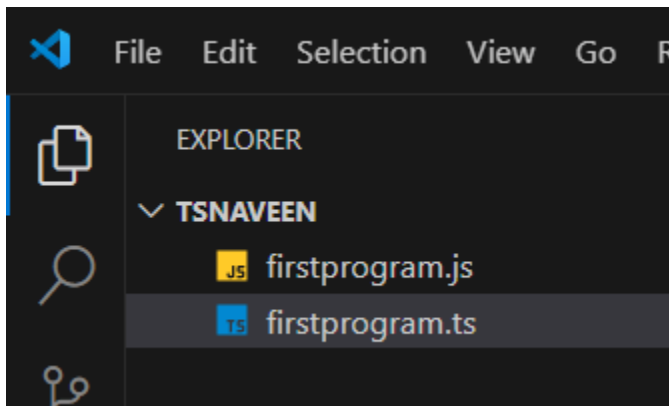
How ts works—



First code-



Compile and js file will be created-



Run the js

```
PS D:\tsNaveen>
PS D:\tsNaveen>
PS D:\tsNaveen> node .\firstprogram.js
my name is karan
PS D:\tsNaveen>
```

Give data type when declaring-

```
givedatatype.ts X
givedatatype.ts > ...
1 let age:number=30
2 var firstName:string="karan"
3 const isActive:boolean=true
4
5 console.log(age)
6 console.log(firstName)
7 console.log(isActive)
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
PS D:\tsNaveen> tsc .\givedatatype.ts
PS D:\tsNaveen> node .\givedatatype.js
30
karan
true
PS D:\tsNaveen>
```