```
TS enumconcept.ts > Browser > [2] Chrome

1    //Enum: Enumeartion: data types : hold the set of constants
2    //numeric
3    //string
4    //heterogenous
5
6    //numeric:
```

Numeric values are by default assigned starting from zero to all the enum values. Example chrome has value zero, ff has one and so on.

Js doesnt thave enum so creates function.

Print complete enum

```
11 }
12
13 console.log(browser.chrome) //0
14 console.log(browser.safari) //1
15 console.log(browser.edge) //3
16 console.log(browser.firefox) //2
17
```

We can override the default values-Then all values will be in the order mentioned.

```
10 }
11
12 console.log(browser.chrome) //987
13 console.log(browser.safari) //988
14 console.log(browser.edge) //990
15 console.log(browser.firefox) //989
16
17 console.log(browser)
```

```
17 console.log(browser)

18

19 // {

20 // '987': 'chrome',

21 // '988': 'safari',

22 // '989': 'firefox',

23 // '990': 'edge',

24 // chrome: 987,

25 // safari: 988,

26 // firefox: 989,

27 // edge: 990

28 // }
```

```
mum3.ts x
list enum3.ts x
list enum if we give our value randomly in between.
list enum if we give our value randomly in between.
list enum if we give our value randomly in between.
list enum3.ts x
lis
```

```
console.log(browser.chrome) //0
console.log(browser.safari) //-45.34534
console.log(browser.edge) //-43.34534
console.log(browser.firefox) //-44.34534

console.log(browser)

console.log(browser)
```

```
18
19  // {
20  // '0': 'chrome',
21  // chrome: 0,
22  // safari: -45.34534,
23  // '-45.34534': 'safari',
24  // firefox: -44.34534,
25  // '-44.34534': 'firefox',
26  // edge: -43.34534,
27  // '-43.34534': 'edge'
28  // }
29
```

You can give any random value-

```
munder is enum4.ts x

number enum4.ts x

numbe
```

```
}
11
12
     console.log(browser.chrome) //89
13
     console.log(browser.safari) //-45
14
15
     console.log(browser.edge) //-43
     console.log(browser.firefox) //-44
16
17
     console.log(browser)
18
19
19
20 \( \t / / \) {
     // '89': 'chrome',
21
22
```

```
19
20 \ // {
21    // '89': 'chrome',
22    // chrome: 89,
23    // safari: -45,
24    // '-45': 'safari',
25    // firefox: -44,
26    // '-44': 'firefox',
27    // edge: -43,
28    // '-43': 'edge'
29    // }
30
```

```
14 ]
15
16 console.log(browser.chrome) //89
17 console.log(browser.safari) //-45
18 console.log(browser.edge) //-32434.32434
19 console.log(browser.firefox) //tiger
20
21 console.log(browser)
22
```

```
22
23
    // '89': 'chrome',
24
    // chrome: 89,
25
    // safari: -45,
26
    // '-45': 'safari',
27
    // firefox: 'tiger',
28
29 // edge: -32434.32434,
30 // '-32434.32434': 'edge'
31 // }
32
```

We can use functions and pass value also-

But we get error for ones not initialised.

```
12
13
     function getversion(browsername:string):number{
14
         if(browsername==="chrome"){
15
             return 123
16
17
18
         return -1
19
     }
20
21
     console.log(browser.chrome) //89
22
     console.log(browser.safari) //-45
     console.log(browser.edge) //-32434.32434
23
     console.log(browser.firefox) //tiger
24
25
     console.log(browser)
26
```

Solution-

Move all non initialiser at top.

```
" enum7.ts X

If enum7.ts > ...

1     //we can pass functions as values.

2     //but if its the first one then the lower ones throw compile error.

3     //solution all initialisers to bottom and non initialised to top.

4

5     enum browser {
6         safari,
7         firefox,
8         edge,
9         chrome = getversion('chrome')

10     }

11

12

13     function getversion(browsername:string):number{
14         if(browsername==="chrome"){
15             return 123
16         }
17             return -1
18     }
```

```
18 }
19
20 console.log(browser.chrome) //123
21 console.log(browser.safari) //0
22 console.log(browser.edge) //2
23 console.log(browser.firefox) //1
24
25 console.log(browser)
```

If you dont want to move to top then assign value to ff-

Run

```
...
enum8.ts X

enum8.ts > ...

//if you dont want to move from top, then assign value to second one.

enum browser {
    chrome = getversion('chrome'),
    safari=1,
    firefox,
    edge,
    edge,
    }
}
```

```
18
19 console.log(browser.chrome) //123
20 console.log(browser.safari) //1
21 console.log(browser.edge) //3
22 console.log(browser.firefox) //2
23
24 console.log(browser)
```

Another way

```
//numeric:
//nume
```

```
12
    }
13
14
    function getversion(browsername:string):number{
15
         if(browsername==="chrome"){
16
17
             return 123
18
        return -1
19
20
21
21
22
     console.log(browser.chrome) //123
     console.log(browser.safari) //1
23
     console.log(browser.edge) //3
24
     console.log(browser.firefox) //2
25
26
```

console.log(browser)

```
}
10
11
12
     function getversion(browsername:string):number{
13
         if(browsername==="chrome"){
14
             return 123
15
16
17
         return -1
18
19
 19
      console.log(browser.chrome) //123
 20
      console.log(browser.safari) //133
 21
      console.log(browser.edge) //1
 22
      console.log(browser.firefox) //0
 23
 24
 25
      console.log(browser)
 26
 26
 27
 28
 29
          '123': 'chrome',
 30
 31
 32
 33
 34
 35
 36
```

We can use [] for accessing also -

```
• 21  // }
22
23  console.log(status1.active) //d1
24  console.log(status1.deactive) //-3434.32434
25  console.log(status1.pending) //-3433.32434
26
```