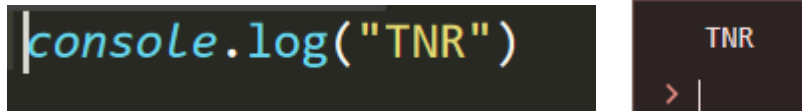


# JAVASCRIPT

J

S is a programming language and use to give instructions to computer.

```
console.log("TNR")
```

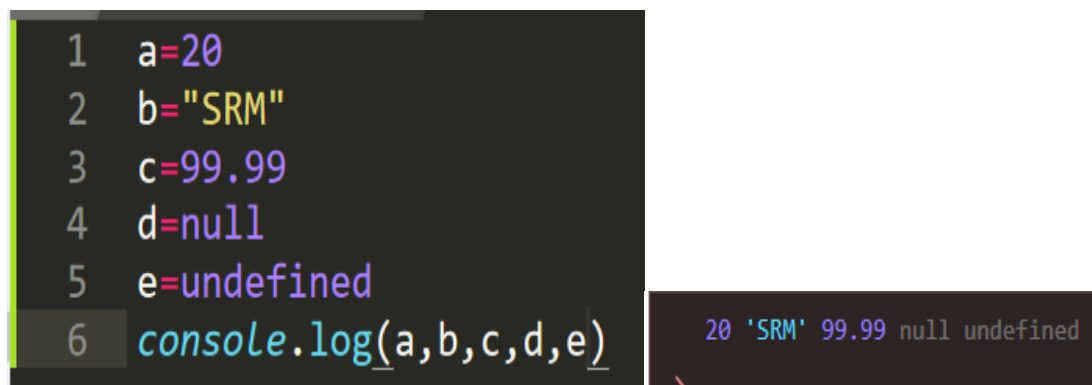


## Variables :

Variables are containers for data.

Dynamically typed language.

```
1 a=20
2 b="SRM"
3 c=99.99
4 d=null
5 e=undefined
6 console.log(a,b,c,d,e)
```



Variable names are case sensitive.

Only letters,digits underscore and \$ are allowed.

Only letter,underscore and \$ should be 1<sup>st</sup> character.

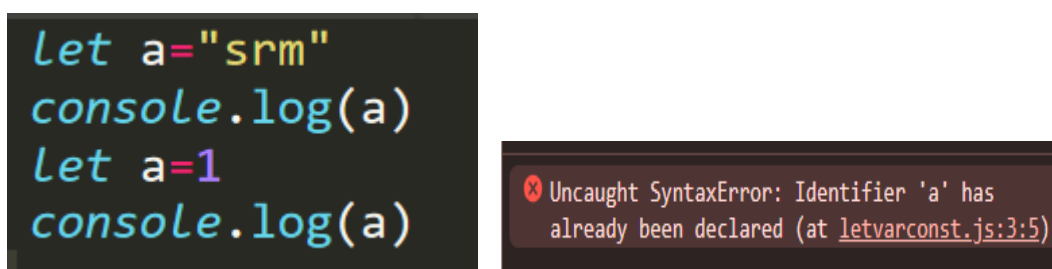
Reserved words cannot be variable names.

**var** : Variables can be re-declared and updated. A global scope variable

**let** : Variables cannot be redeclared but can be updated. A block scope variable.

**const**: Variables cannot be redeclared or updated. A block scope variable.

```
let a="srm"
console.log(a)
let a=1
console.log(a)
```



```

6  var a="srm"
7  console.log(a)
8  var a=1
9  console.log(a)

```

srm

1

```

11 const a="srm"
12 console.log(a)
13 const a=1
14 console.log(a)

```

✖ Uncaught SyntaxError: Identifier 'a' has already been declared (at letvarconst.js:14:1)

## DATA TYPES

Primitive : Number,String,Boolean,Undefined,Null,BigInt,Symbol

```

1  let a=2
2  let b=0.2
3  console.log(typeof(a),typeof(b))
4  let c=true
5  console.log(typeof(c))
6  let d="srm"
7  console.log(typeof(d))
8  let e;
9  console.log(typeof(e))

```

number number

boolean

string

undefined

Non primitive : objects

```

1  let stu={
2      "id": 1,
3      "name": "Alice Johnson",
4      "email": "alice.johnson@example.com",
5      "age": 29,
6      "location": "New York",
7      "skills": ["JavaScript", "React", "Node.js"]
8  }
9  console.log(stu)
10 console.log(typeof(stu))
11 console.log(stu["name"])
12 console.log(stu.name)
13 stu.age=stu.age+1;
14 console.log(stu.age)

```

```

objects.js:9
▼ {id: 1, name: 'Alice Johnson', email: 'alice.johnson@example.c
  om', age: 29, location: 'New York', ...} ⓘ
    age: 30
    email: "alice.johnson@example.com"
    id: 1
    location: "New York"
    name: "Alice Johnson"
    ► skills: (3) ['JavaScript', 'React', 'Node.js']
    ► [[Prototype]]: Object

```

object	<a href="#">objects.js:10</a>
Alice Johnson	<a href="#">objects.js:11</a>
Alice Johnson	<a href="#">objects.js:12</a>
30	<a href="#">objects.js:14</a>