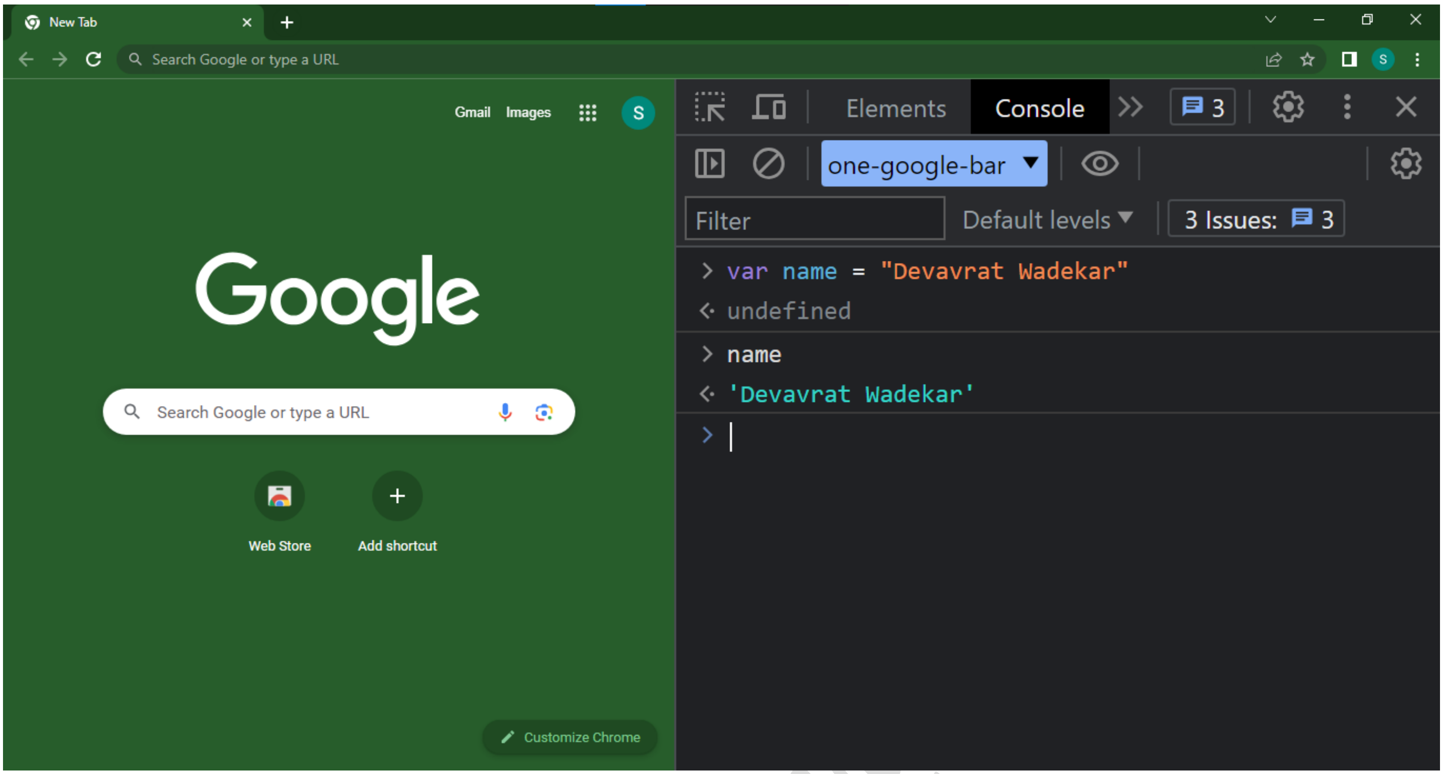
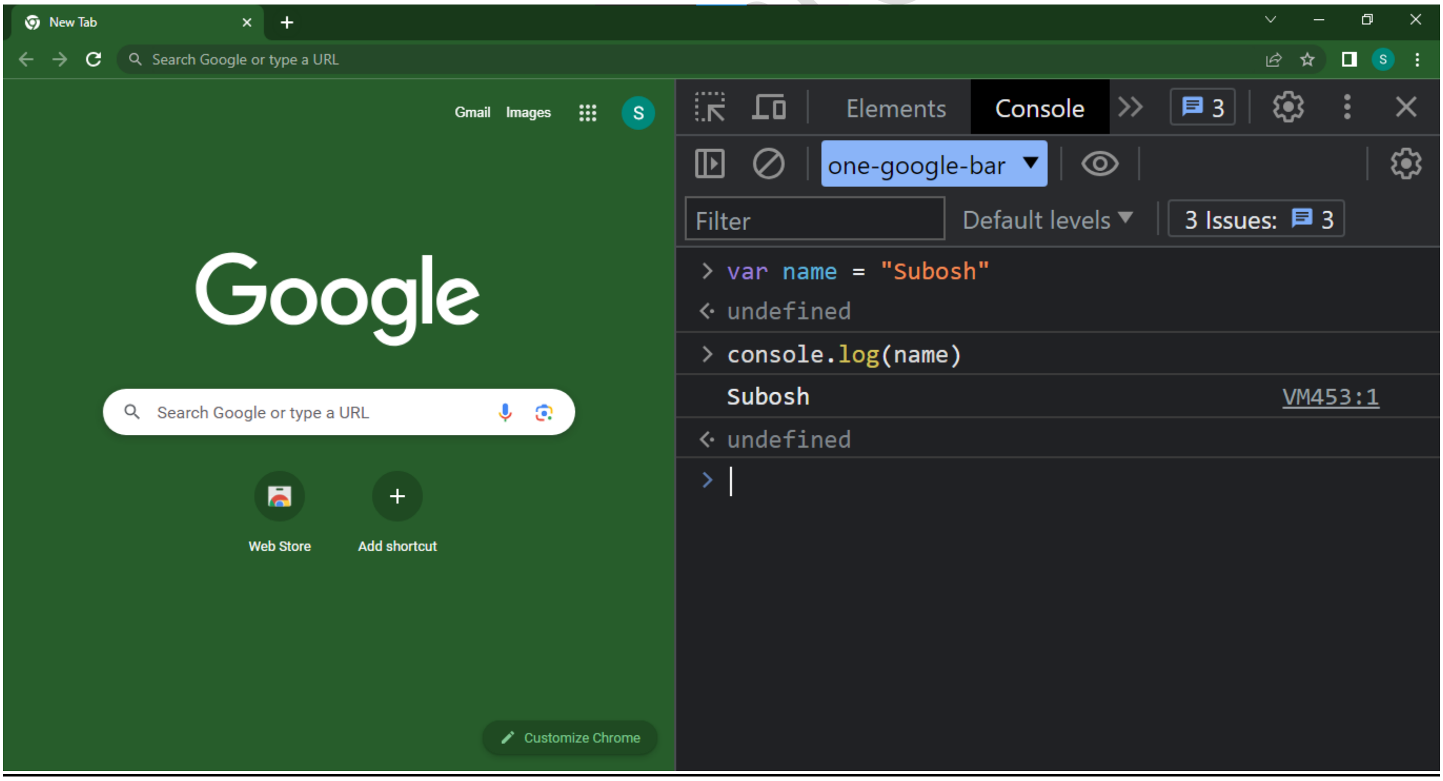
JavaScript front End Summary

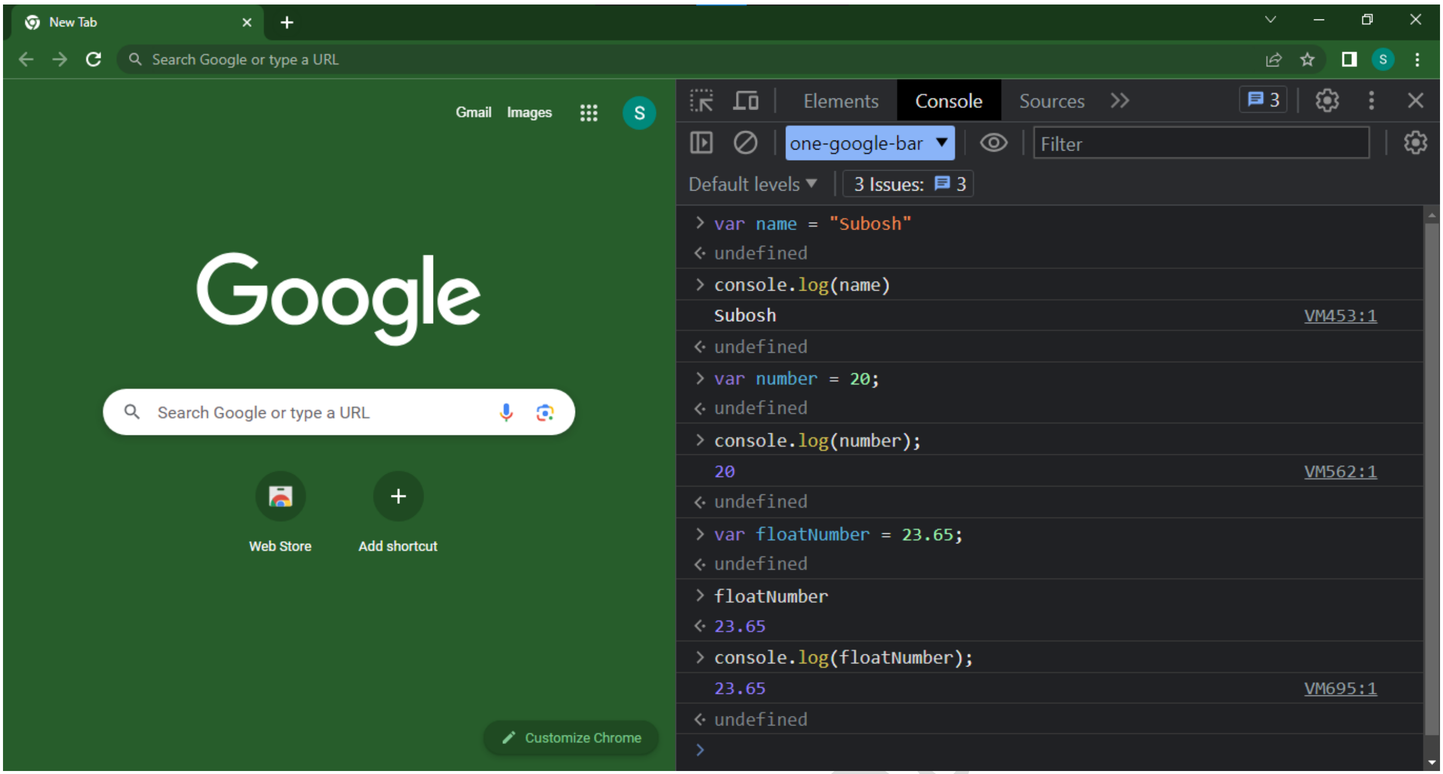


```
> var name = "Devavrat Wadekar"
< undefined
> name
< 'Devavrat Wadekar'
>
```



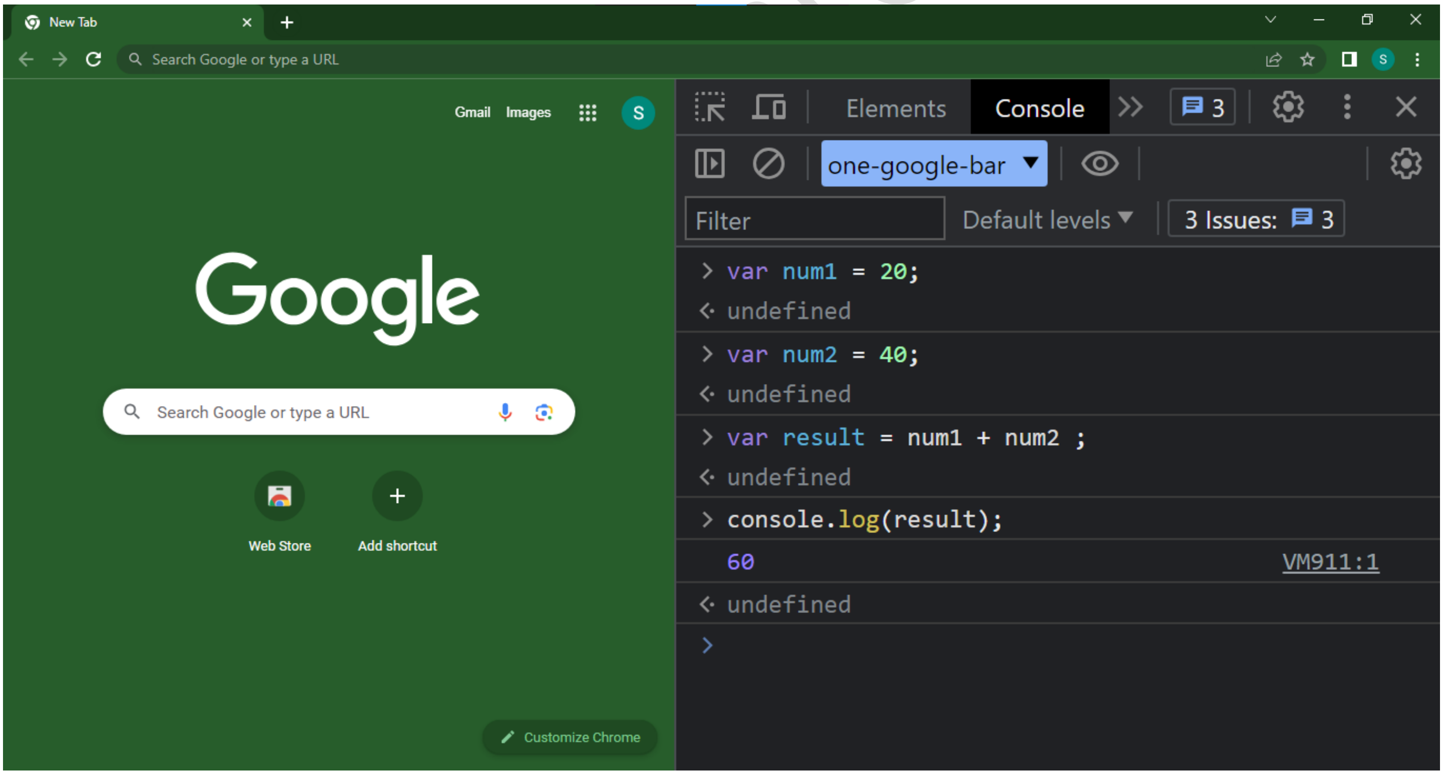
```
> var name = "Subosh"
< undefined
> console.log(name)
  Subosh                                          VM453:1
< undefined
>
```

JavaScript



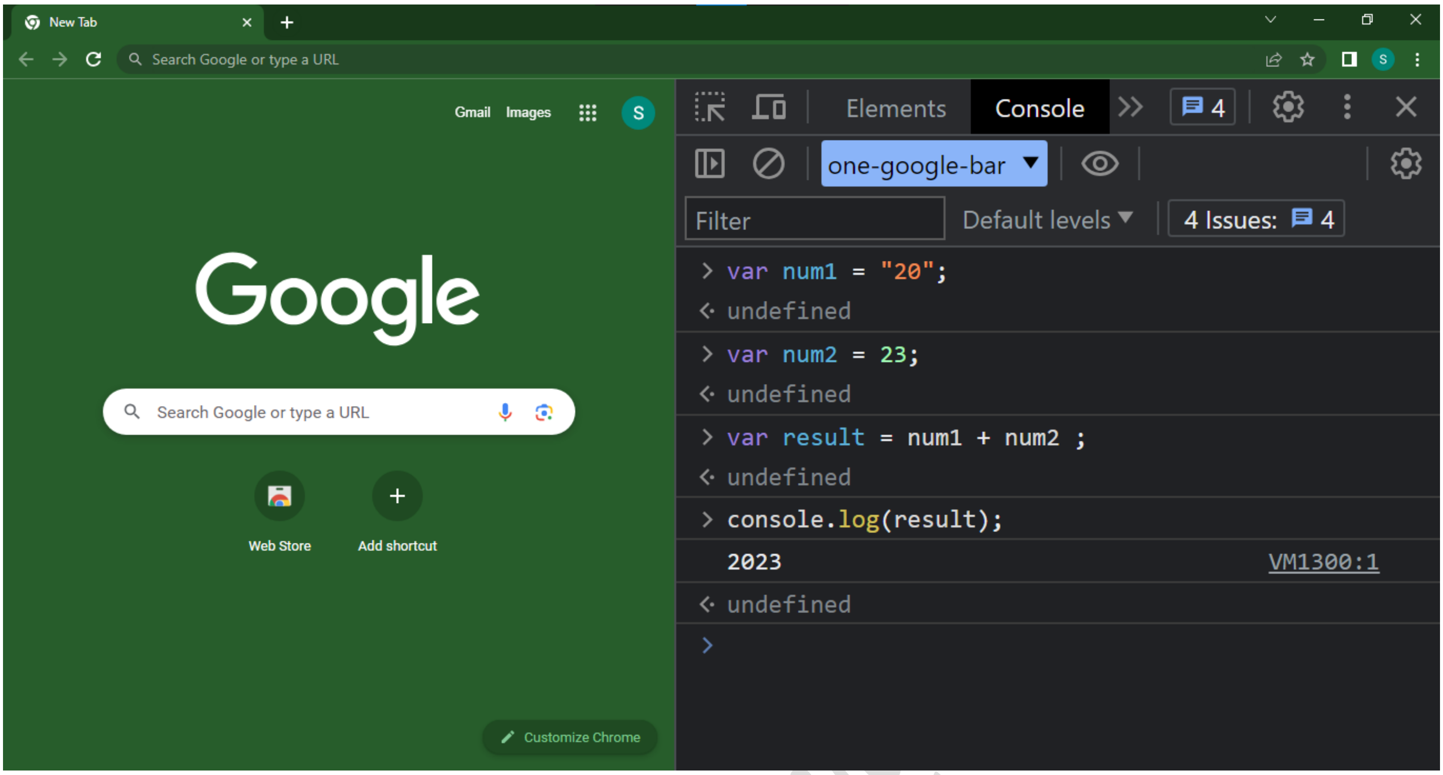
```
> var name = "Subosh"
< undefined
> console.log(name)
  Subosh                                    VM453:1
< undefined
> var number = 20;
< undefined
> console.log(number);
  20                                        VM562:1
< undefined
> var floatNumber = 23.65;
< undefined
> floatNumber
< 23.65
> console.log(floatNumber);
  23.65                                     VM695:1
< undefined
>
```

Addition is happened between two numbers in JavaScript :



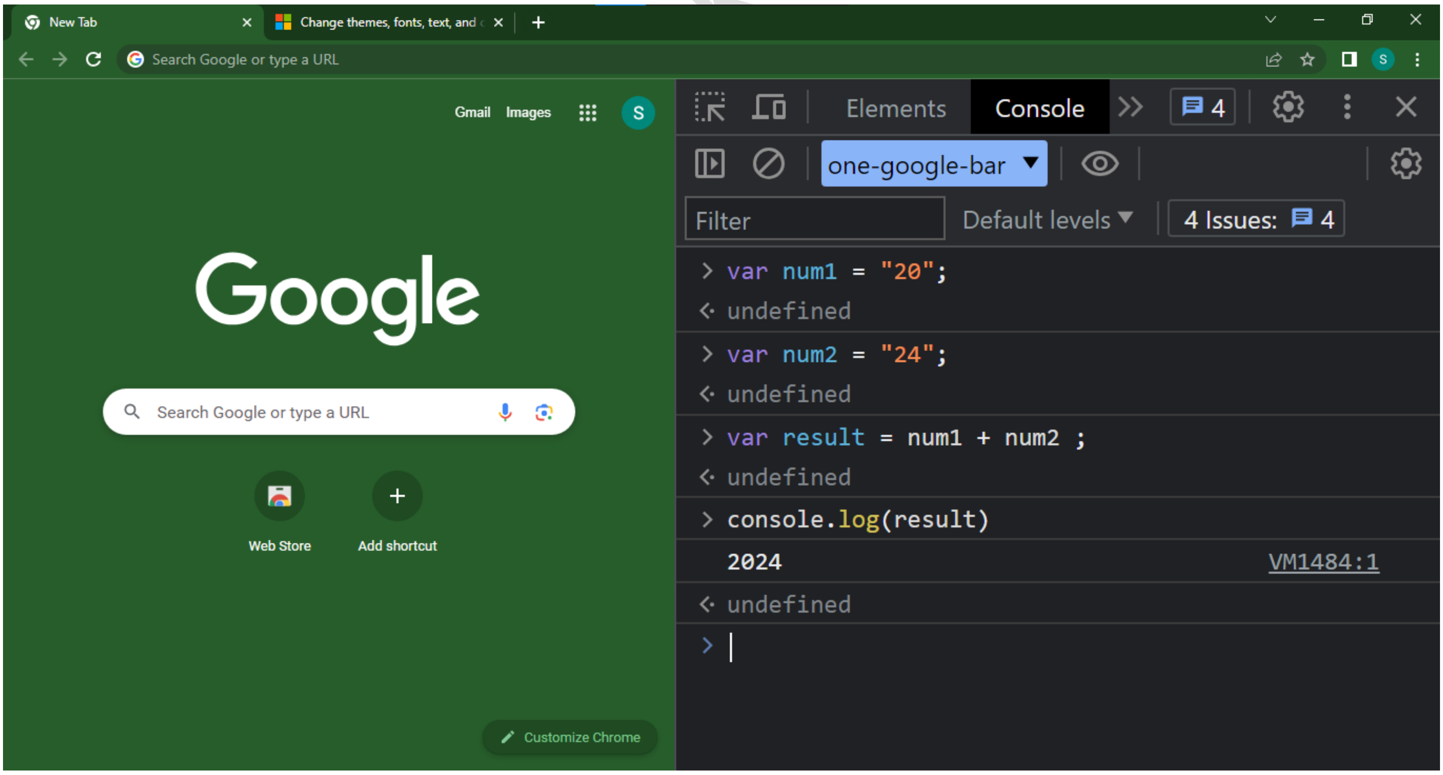
```
> var num1 = 20;
< undefined
> var num2 = 40;
< undefined
> var result = num1 + num2 ;
< undefined
> console.log(result);
  60                                        VM911:1
< undefined
>
```

Concatenation : Addition will be happened between String and Integer Number



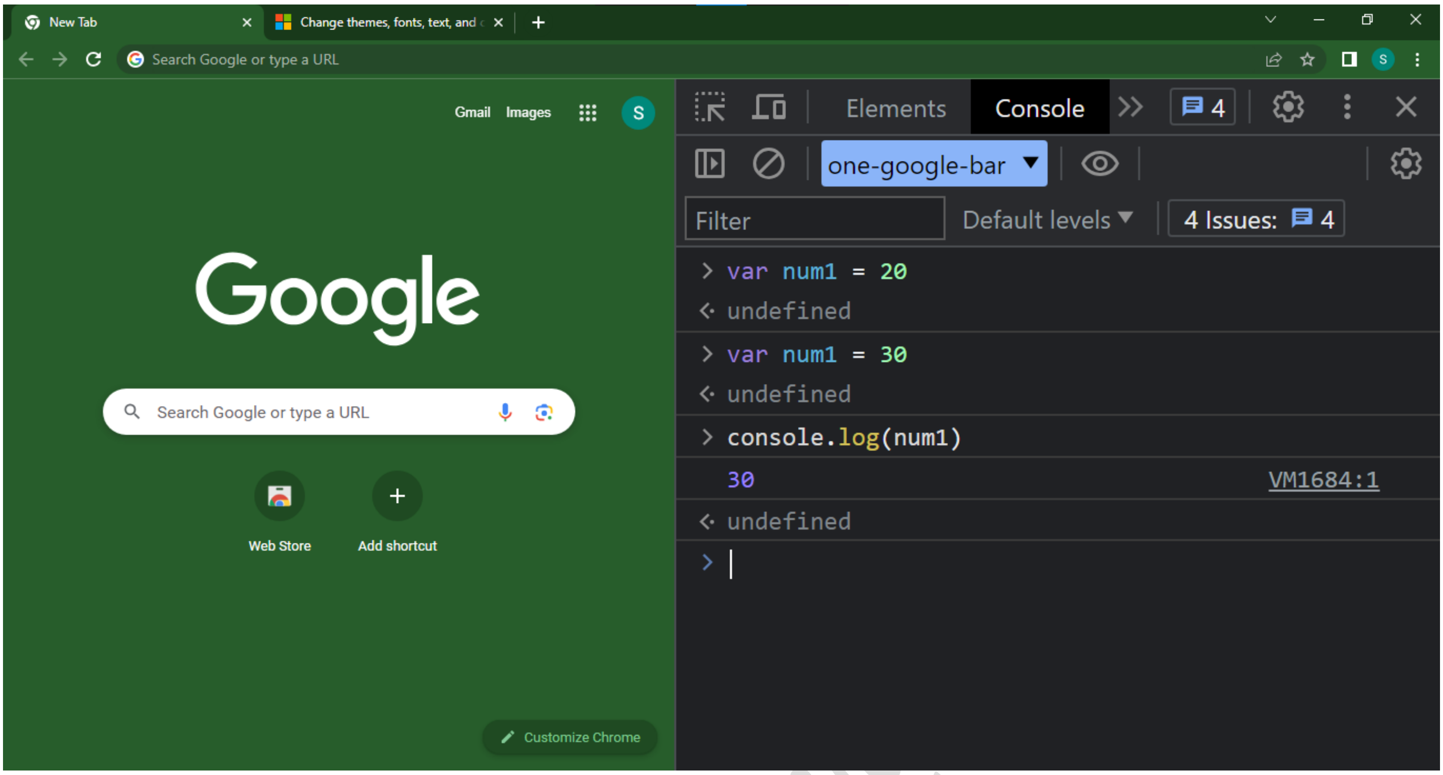
```
> var num1 = "20";
<· undefined
> var num2 = 23;
<· undefined
> var result = num1 + num2 ;
<· undefined
> console.log(result);
  2023                                   VM1300:1
<· undefined
>
```

Double Quote data is always indicated **String** in **JS** for addition



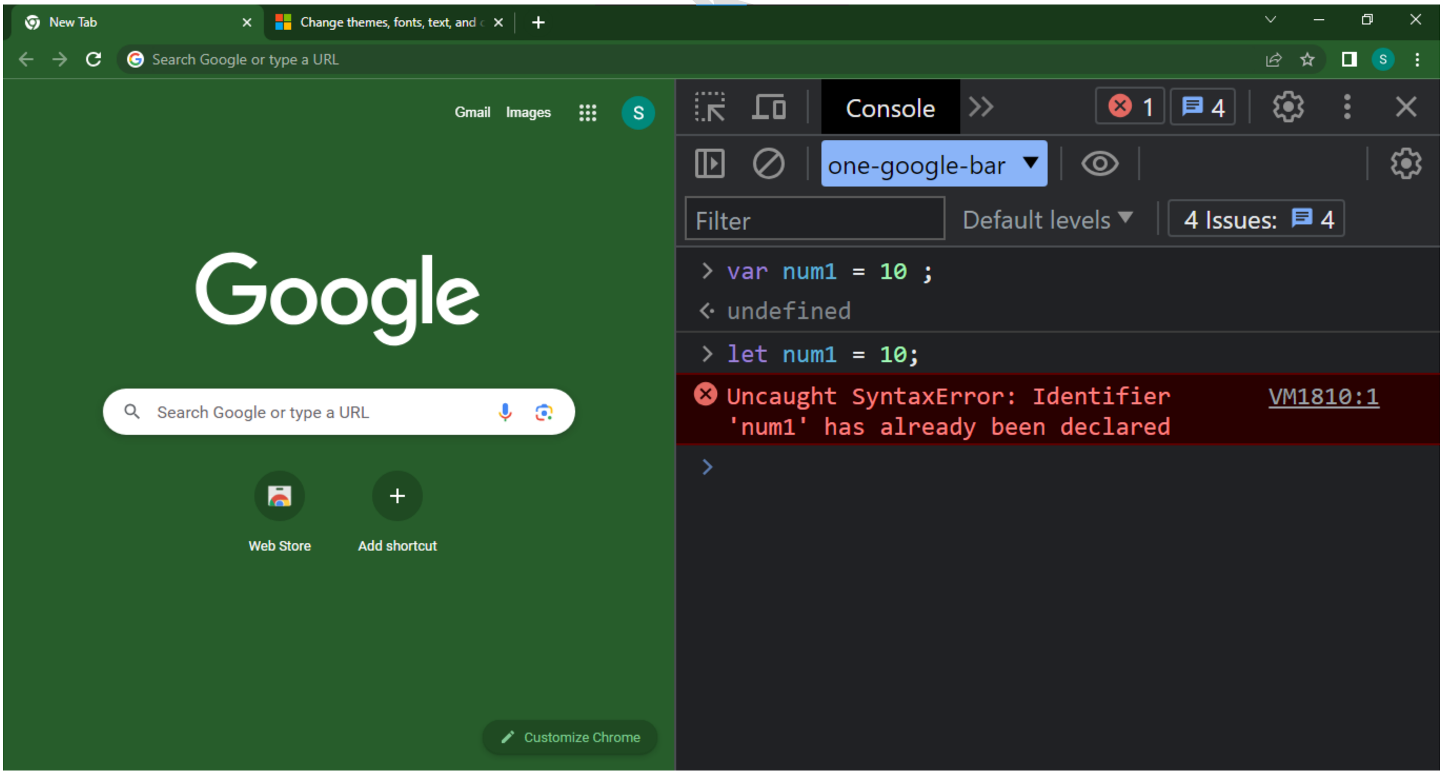
```
> var num1 = "20";
<· undefined
> var num2 = "24";
<· undefined
> var result = num1 + num2 ;
<· undefined
> console.log(result)
  2024                                   VM1484:1
<· undefined
> |
```

Same **variable name** if you specified in new value then new value will be injected



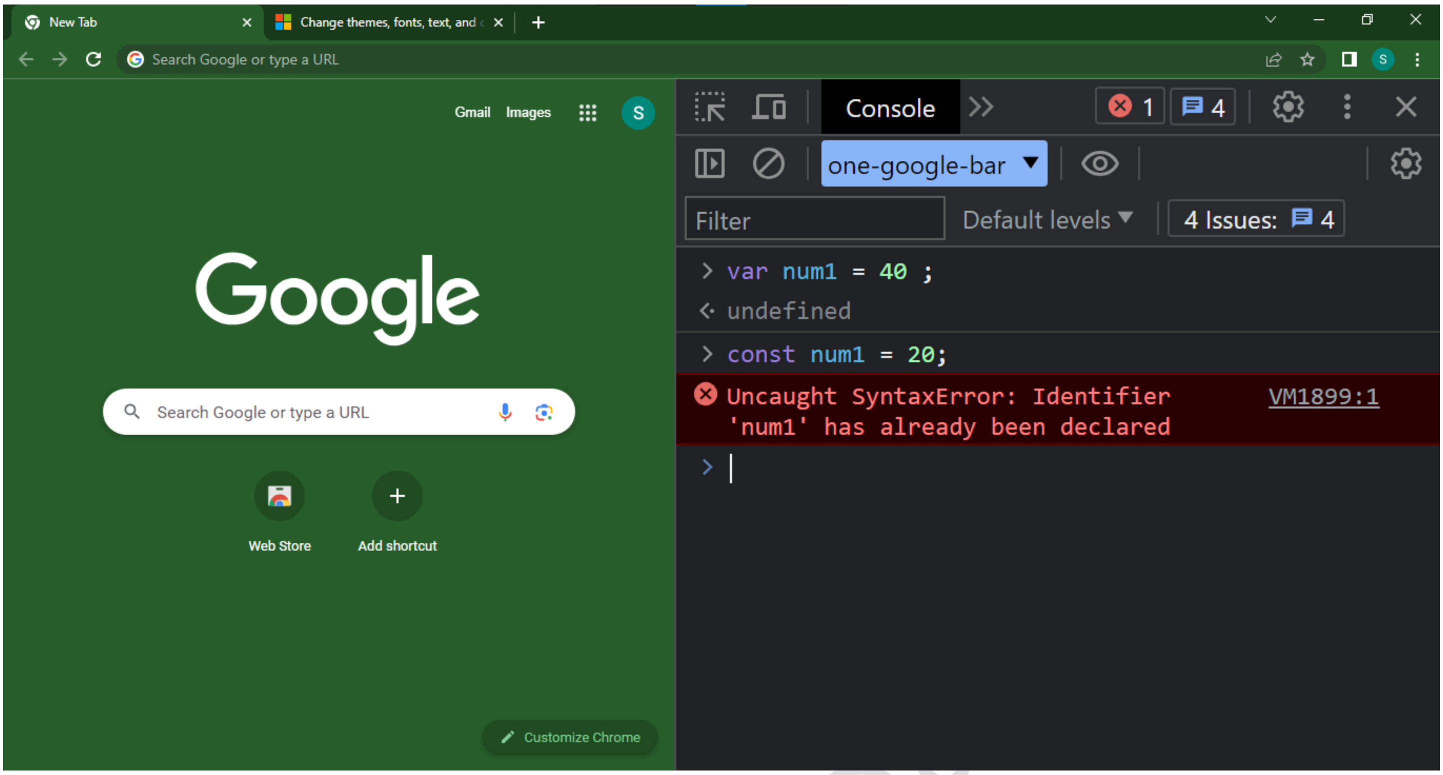
```
> var num1 = 20
< undefined
> var num1 = 30
< undefined
> console.log(num1)
  30                                    VM1684:1
< undefined
>
```

Using ***let* and *const*** data type in **JS . You** cannot initialize new value



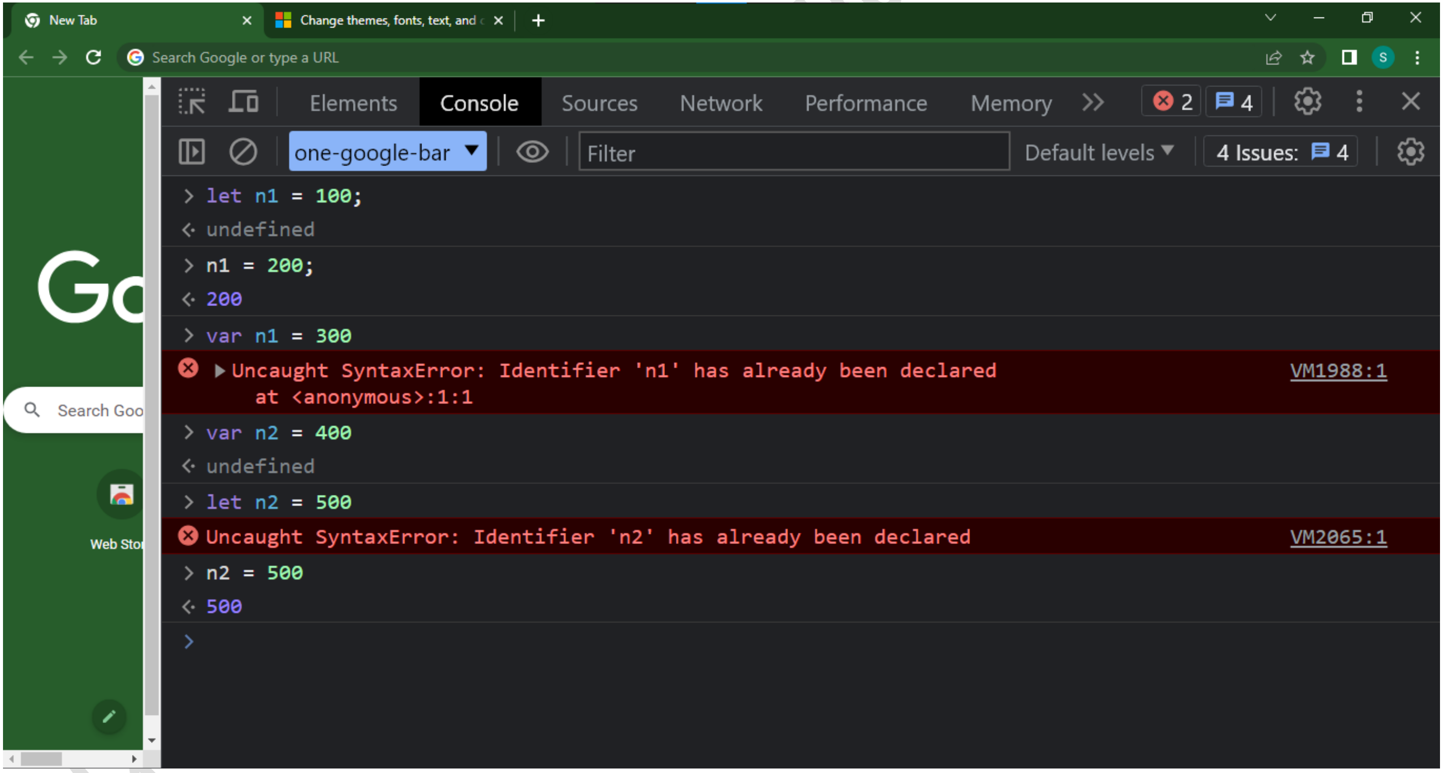
```
> var num1 = 10 ;
< undefined
> let num1 = 10;
✖ Uncaught SyntaxError: Identifier        VM1810:1
  'num1' has already been declared
>
```

JavaScript



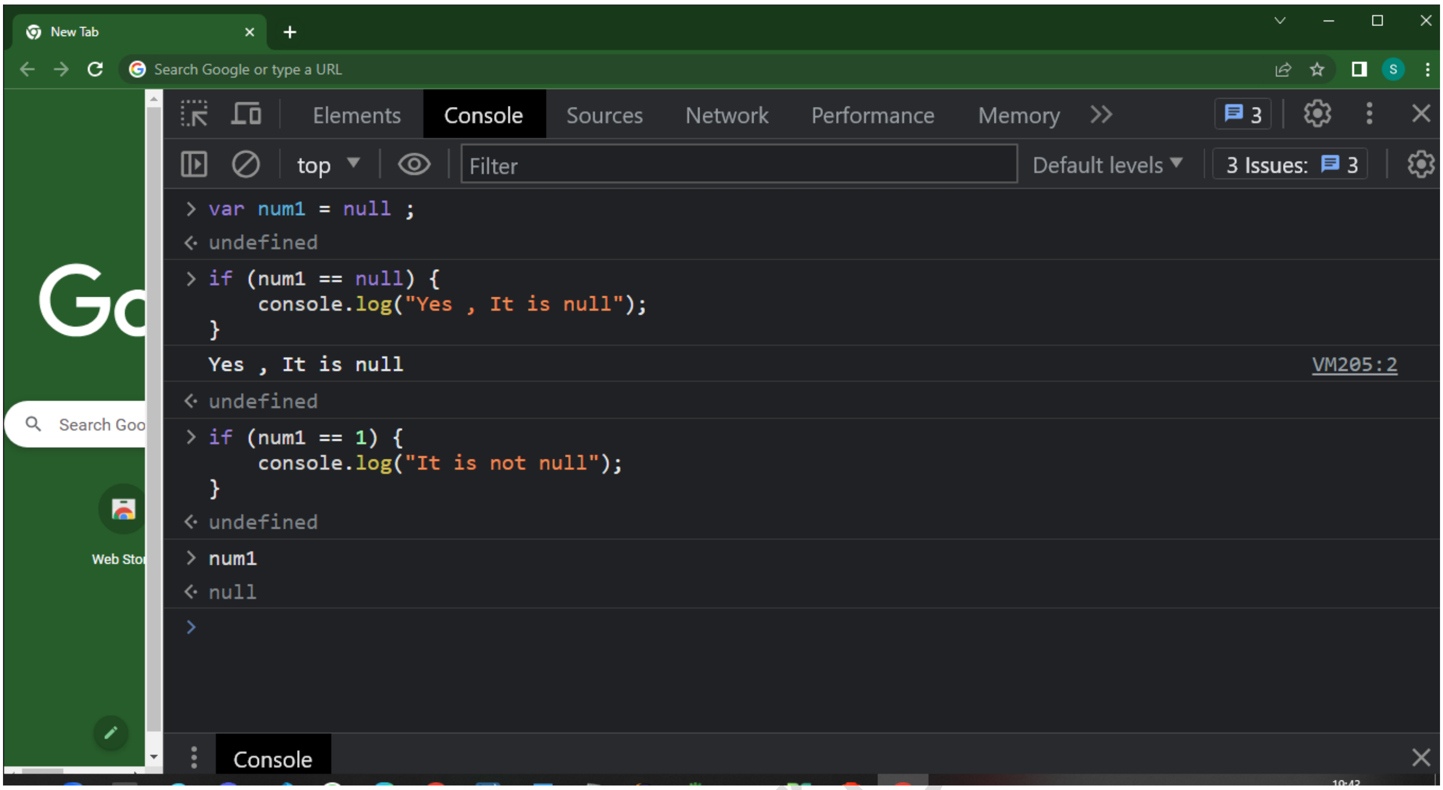
```
> var num1 = 40 ;
<· undefined
> const num1 = 20;
✖ Uncaught SyntaxError: Identifier                  VM1899:1
  'num1' has already been declared
> |
```

Rules for Specifying variables



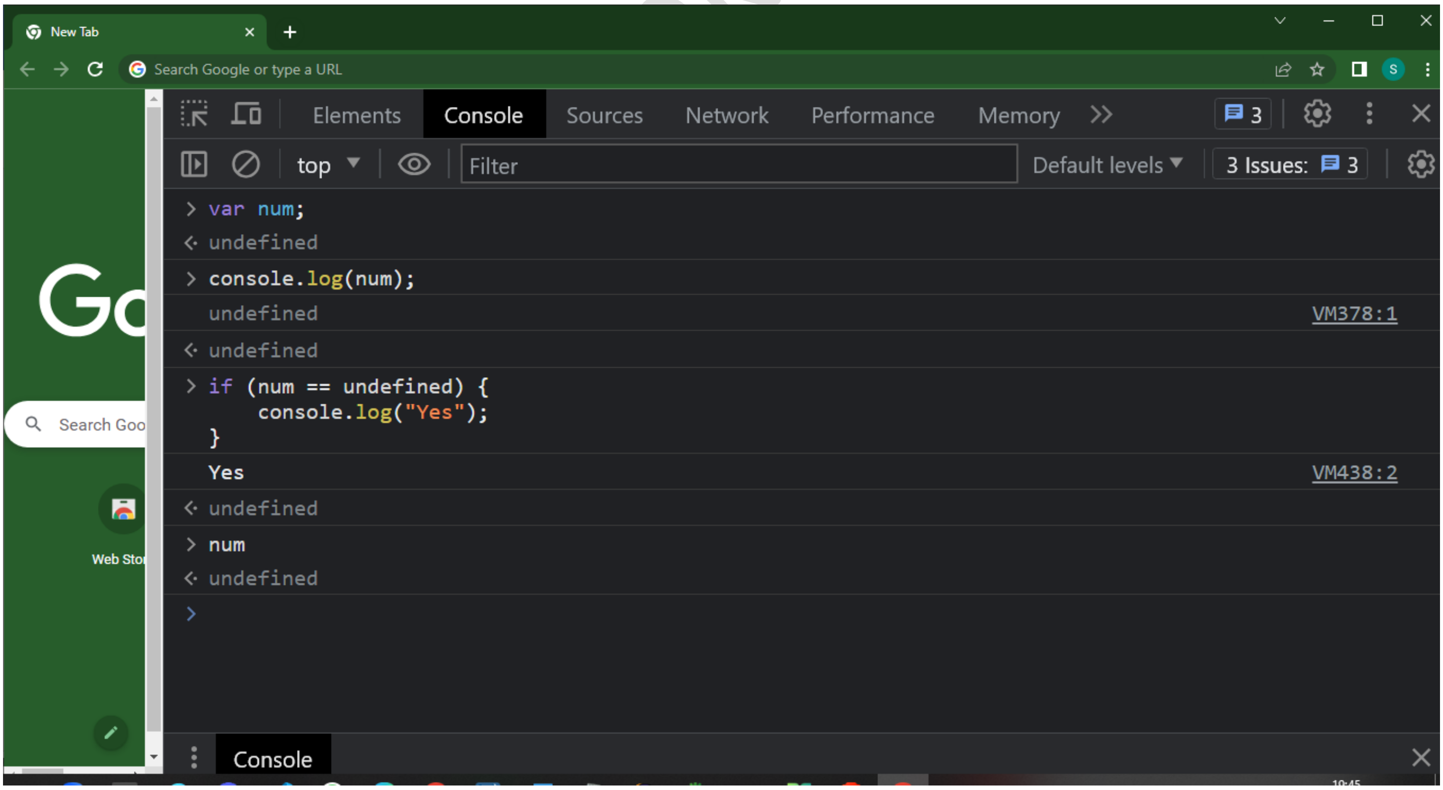
```
> let n1 = 100;
<· undefined
> n1 = 200;
<· 200
> var n1 = 300
✖ ▶Uncaught SyntaxError: Identifier 'n1' has already been declared     VM1988:1
     at <anonymous>:1:1
> var n2 = 400
<· undefined
> let n2 = 500
✖ Uncaught SyntaxError: Identifier 'n2' has already been declared       VM2065:1
> n2 = 500
<· 500
>
```

Null as a Value



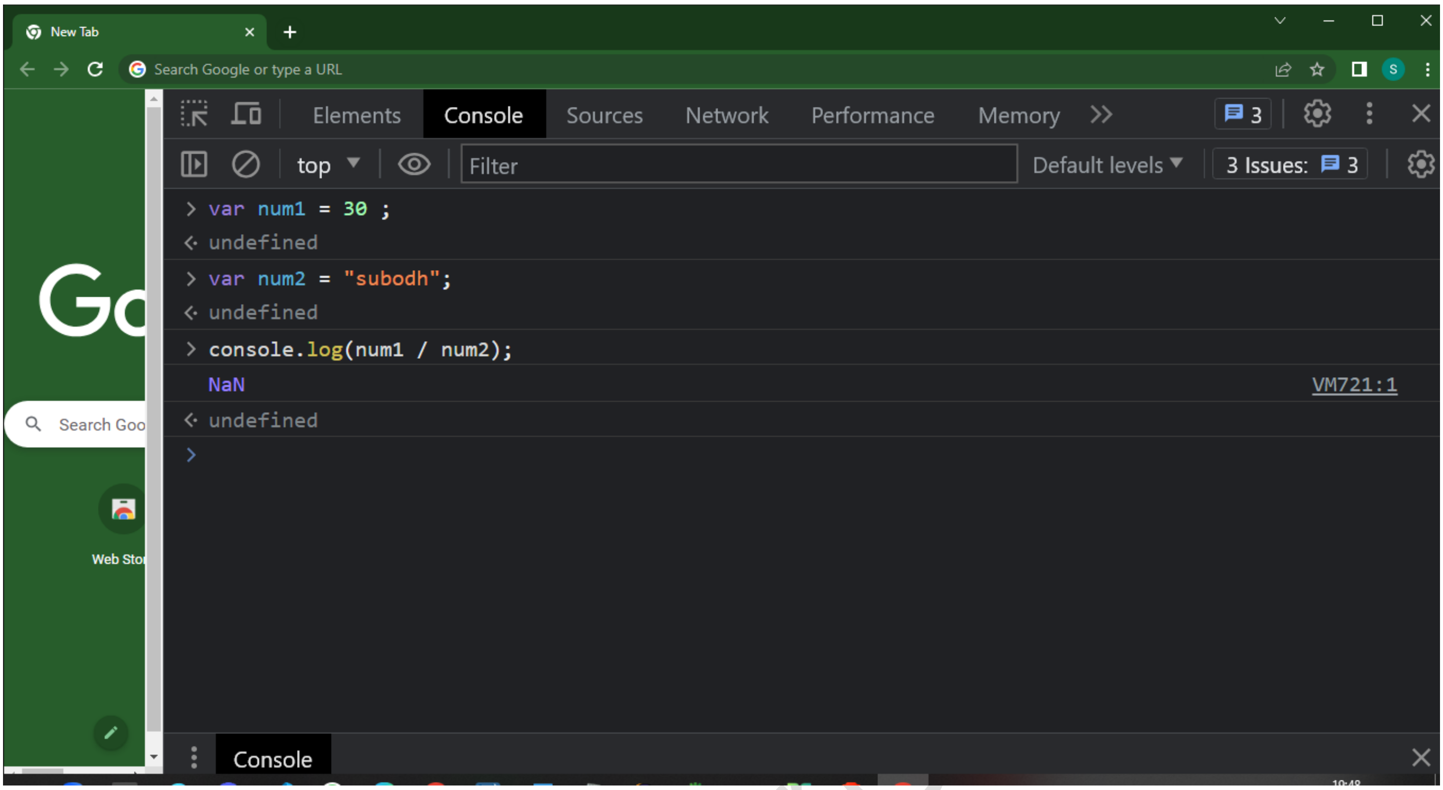
```
> var num1 = null ;
<· undefined
> if (num1 == null) {
      console.log("Yes , It is null");
  }
  Yes , It is null                                   VM205:2
<· undefined
> if (num1 == 1) {
      console.log("It is not null");
  }
<· undefined
> num1
<· null
>
```

Undefined



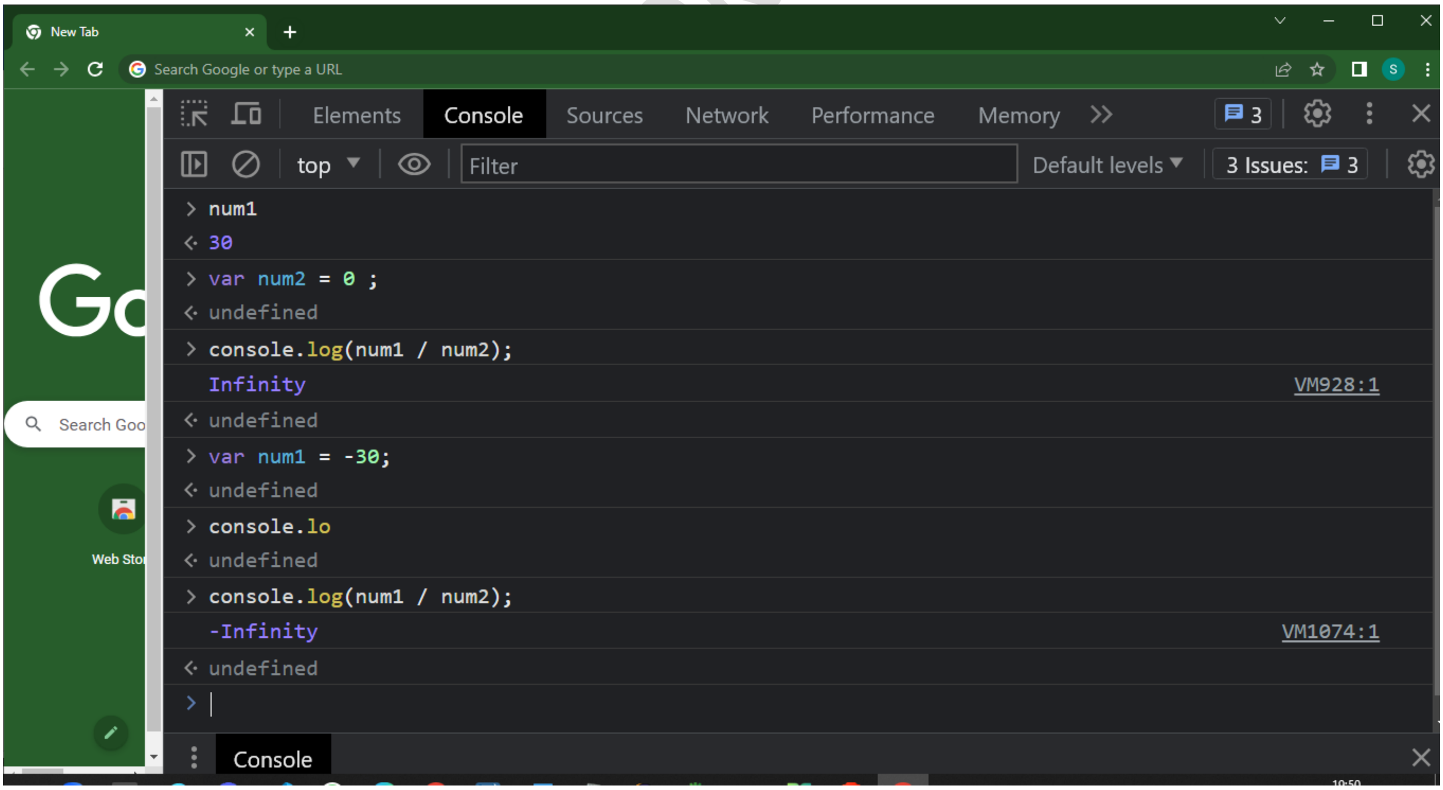
```
> var num;
<· undefined
> console.log(num);
  undefined                                          VM378:1
<· undefined
> if (num == undefined) {
      console.log("Yes");
  }
  Yes                                                VM438:2
<· undefined
> num
<· undefined
>
```

NaN (Not a Number) –



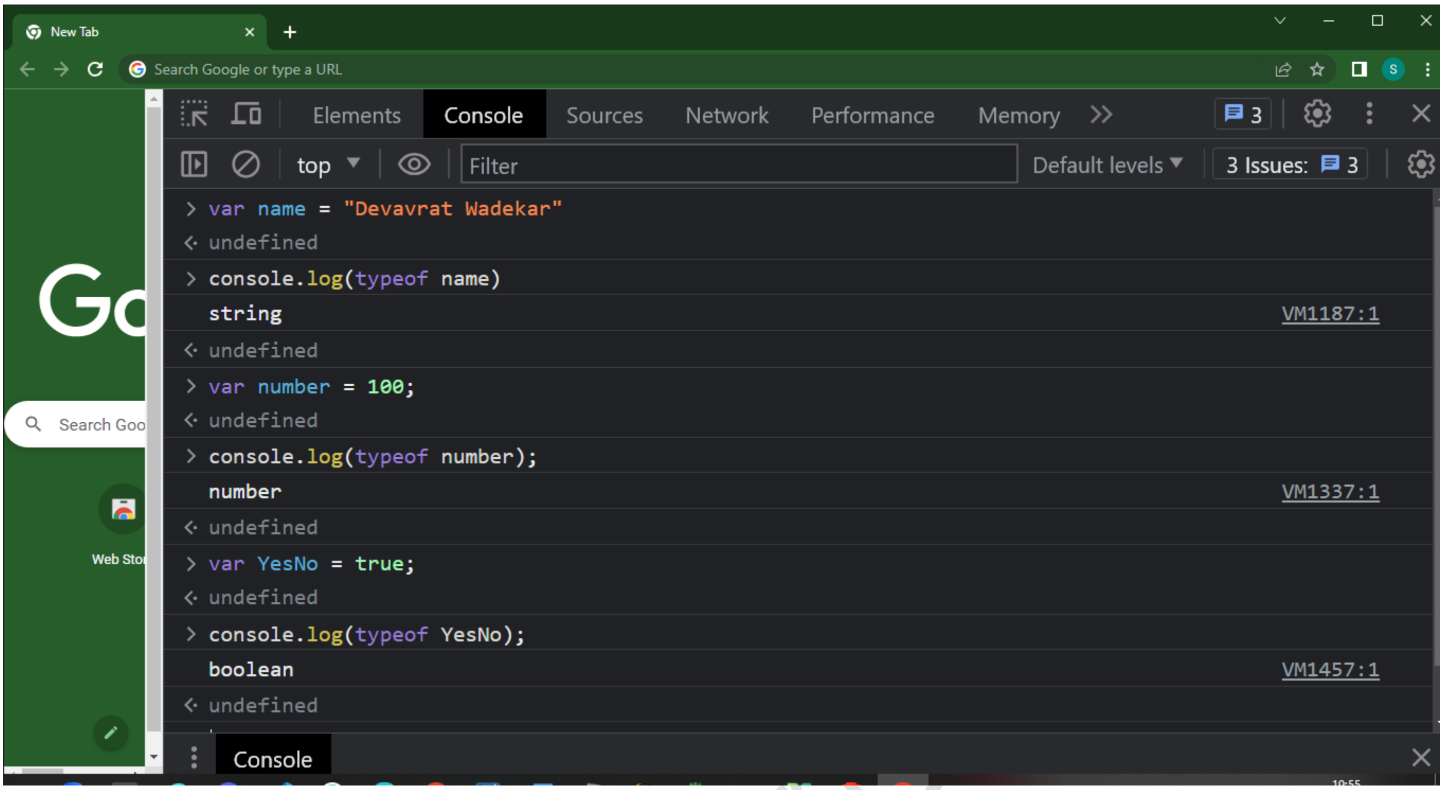
```
> var num1 = 30 ;
<· undefined
> var num2 = "subodh";
<· undefined
> console.log(num1 / num2);
  NaN                                                          VM721:1
<· undefined
>
```

Infinity or -Infinity :



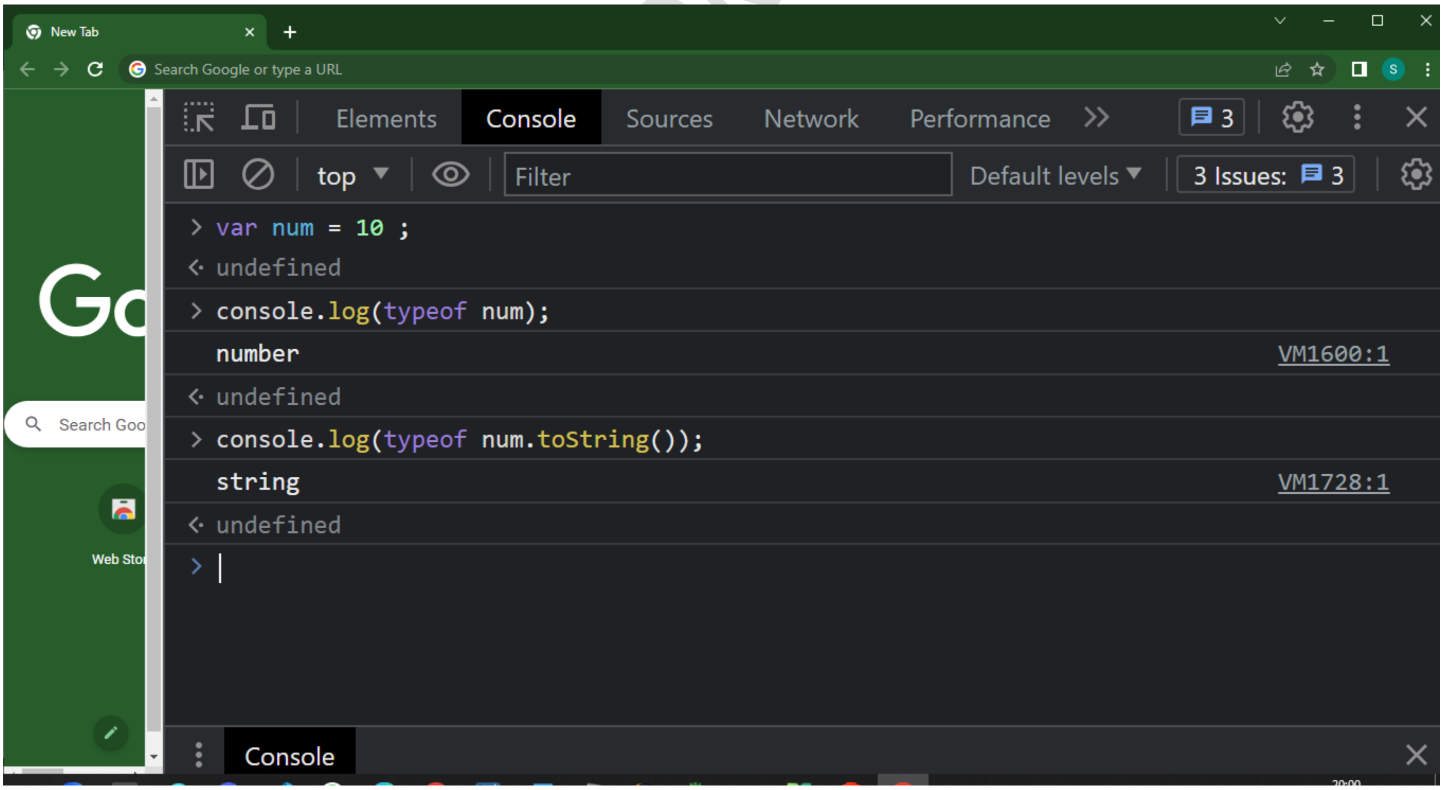
```
> num1
<· 30
> var num2 = 0 ;
<· undefined
> console.log(num1 / num2);
  Infinity                                                     VM928:1
<· undefined
> var num1 = -30;
<· undefined
> console.lo
<· undefined
> console.log(num1 / num2);
  -Infinity                                                   VM1074:1
<· undefined
>
```

typeof : use for what type of data is hold the variable



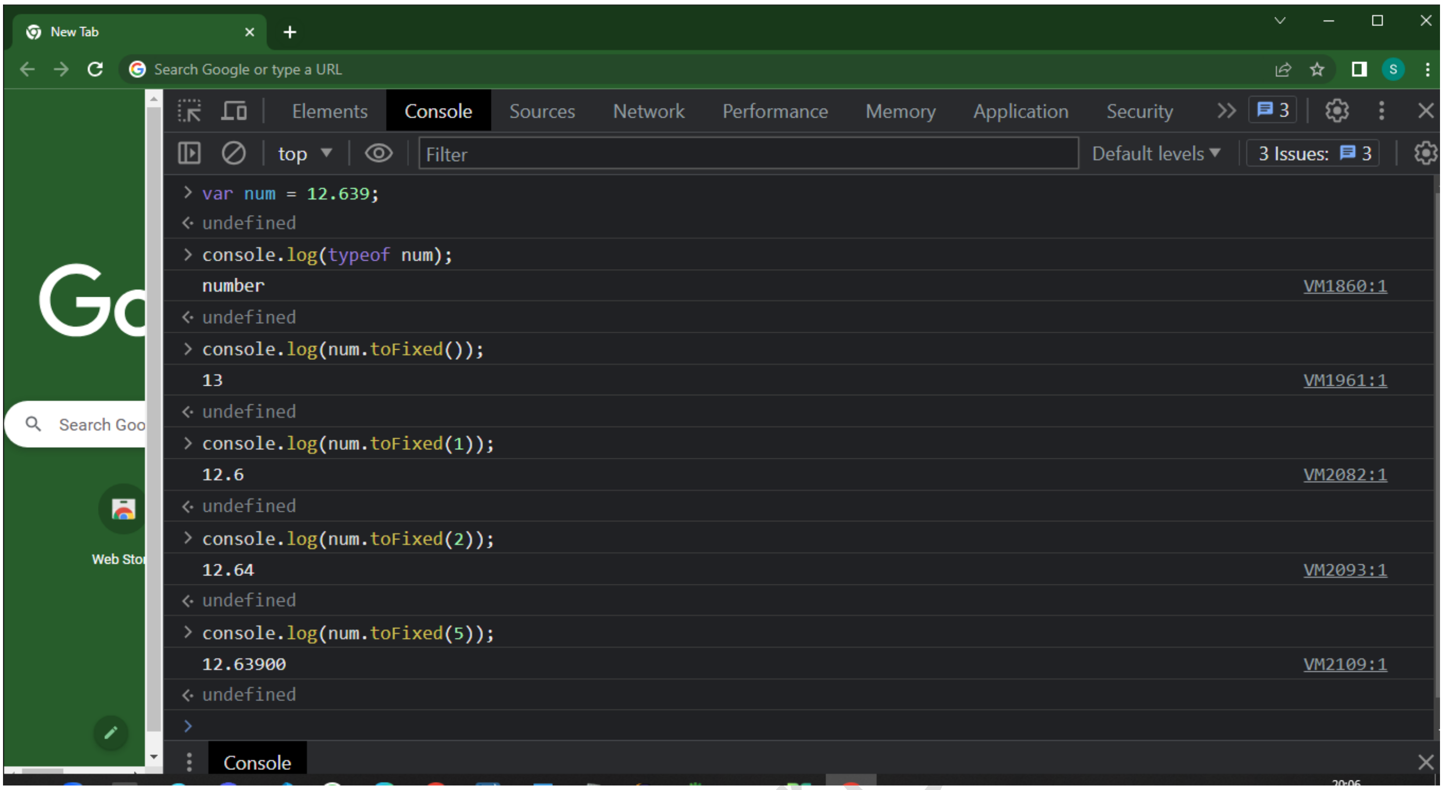
```
> var name = "Devavrat Wadekar"
< undefined
> console.log(typeof name)
  string                                   VM1187:1
< undefined
> var number = 100;
< undefined
> console.log(typeof number);
  number                                   VM1337:1
< undefined
> var YesNo = true;
< undefined
> console.log(typeof YesNo);
  boolean                                  VM1457:1
< undefined
```

toString() : Conversion of different type data into String type



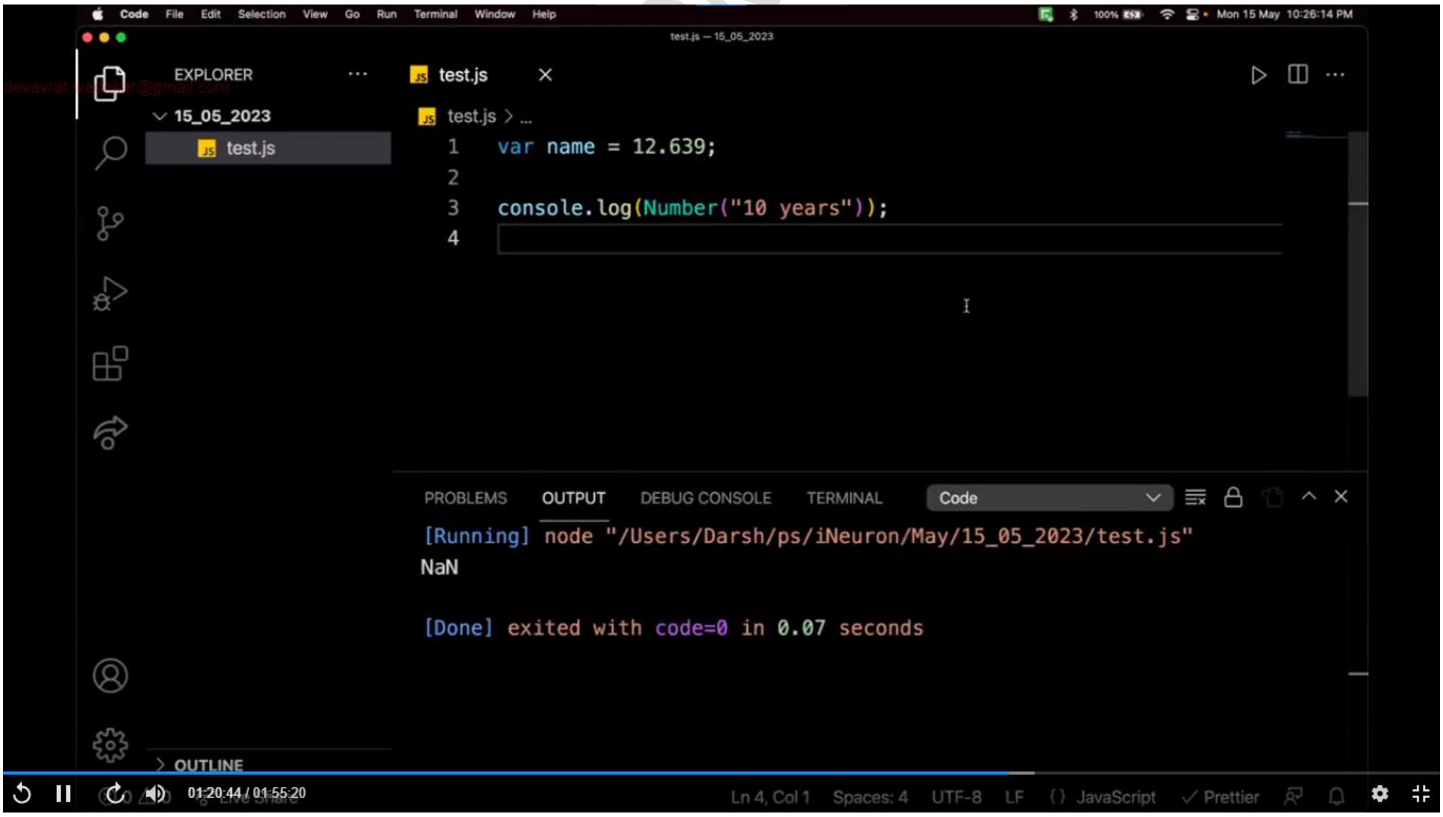
```
> var num = 10 ;
< undefined
> console.log(typeof num);
  number                                   VM1600:1
< undefined
> console.log(typeof num.toString());
  string                                   VM1728:1
< undefined
> |
```

toFixed():



```
> var num = 12.639;
<· undefined
> console.log(typeof num);
  number                                    VM1860:1
<· undefined
> console.log(num.toFixed());
  13                                        VM1961:1
<· undefined
> console.log(num.toFixed(1));
  12.6                                      VM2082:1
<· undefined
> console.log(num.toFixed(2));
  12.64                                     VM2093:1
<· undefined
> console.log(num.toFixed(5));
  12.63900                                  VM2109:1
<· undefined
>
```

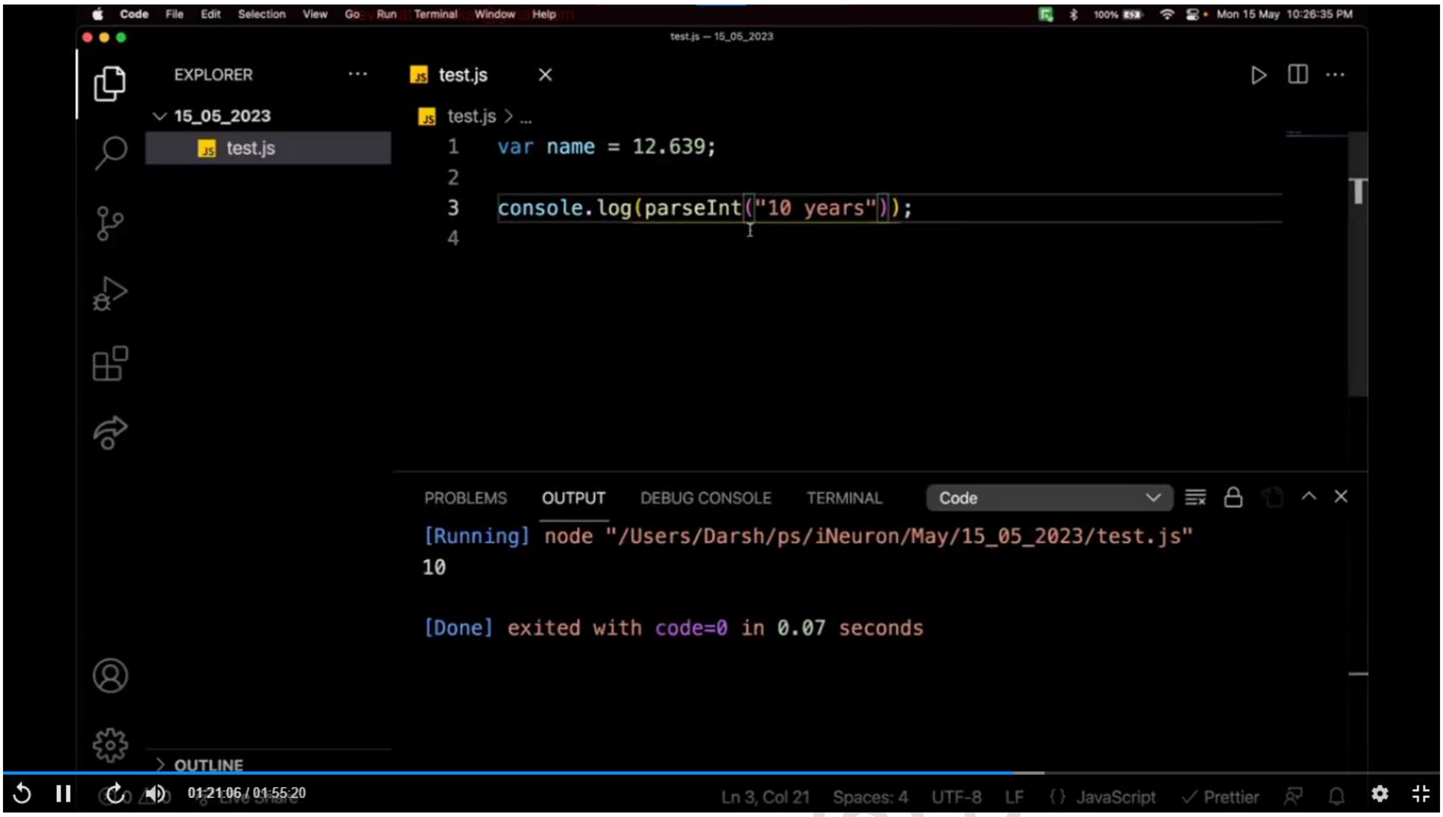
Number



```
var name = 12.639;

console.log(Number("10 years"));
```

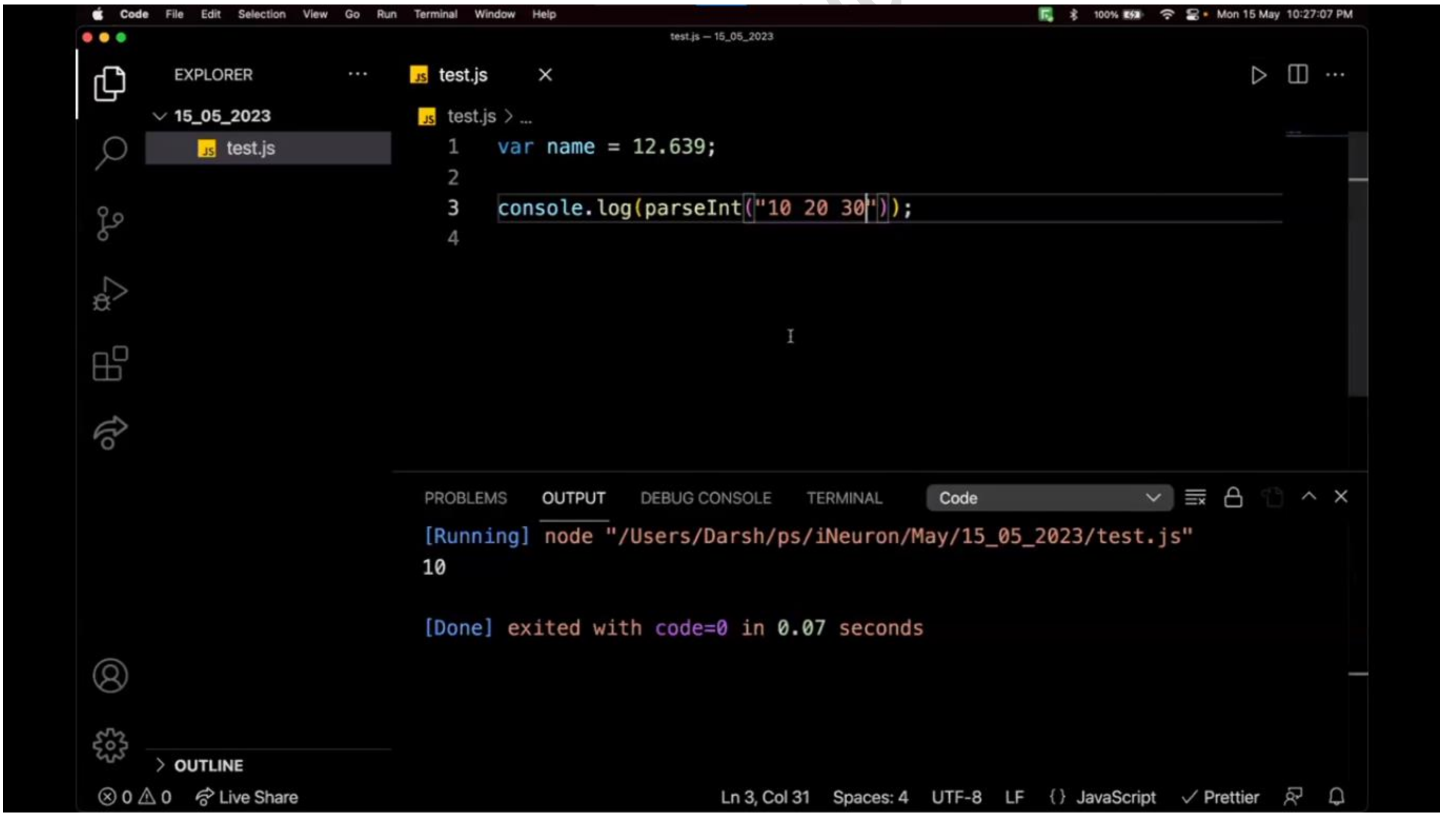
```
[Running] node "/Users/Darsh/ps/iNeuron/May/15_05_2023/test.js"
NaN

[Done] exited with code=0 in 0.07 seconds
```

JavaScript



```
var name = 12.639;

console.log(parseInt("10 years"));
```

```
[Running] node "/Users/Darsh/ps/iNeuron/May/15_05_2023/test.js"
10

[Done] exited with code=0 in 0.07 seconds
```

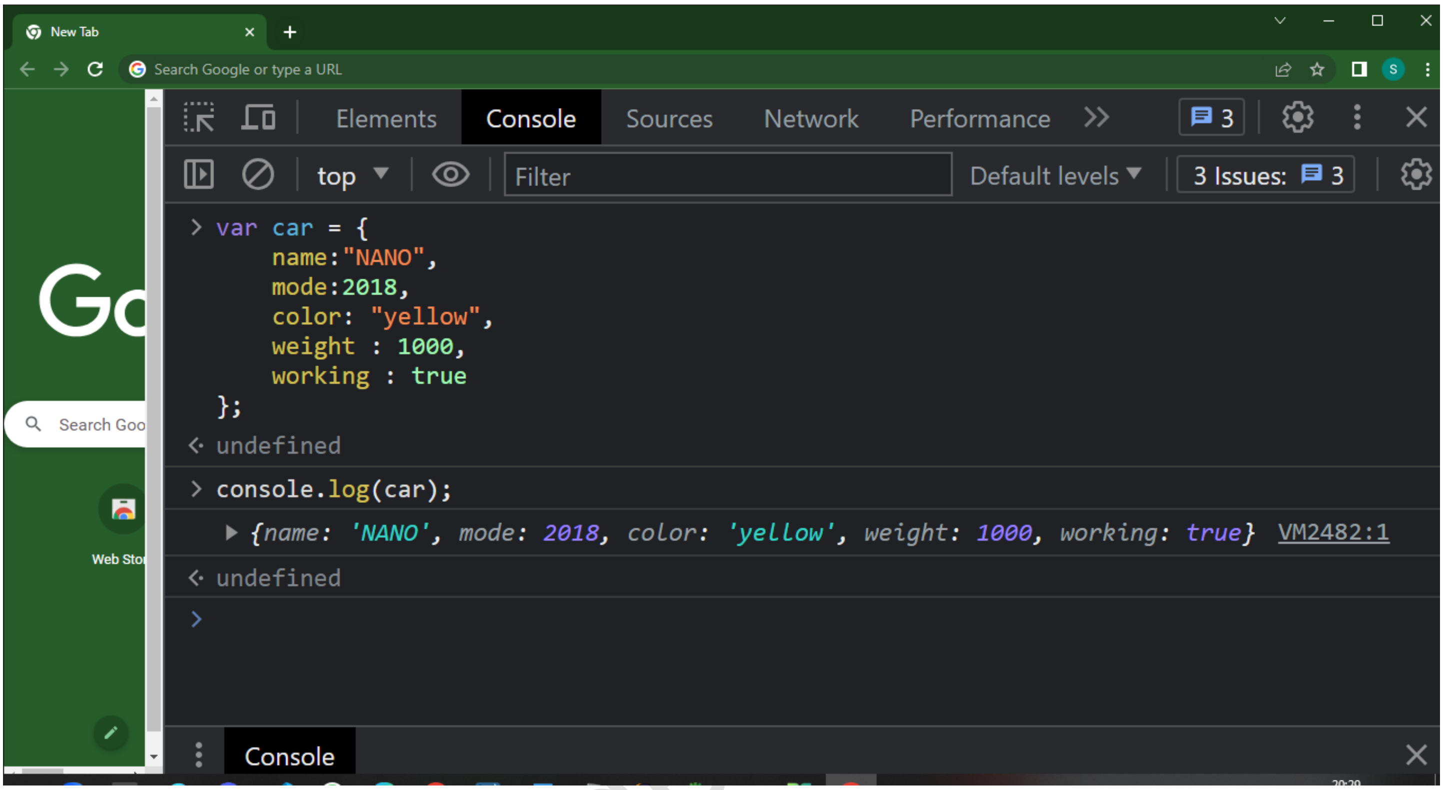


```
var name = 12.639;

console.log(parseInt("10 20 30"));
```

```
[Running] node "/Users/Darsh/ps/iNeuron/May/15_05_2023/test.js"
10

[Done] exited with code=0 in 0.07 seconds
```

Object in JavaScript?

- **JSON** is the one type of object in JavaScript.
- JSON – **Java Sun Object**
- Below SS is define how to declare and define object in JavaScript
- Define object **member in key-value** pairs [eg : color: ”blue”]

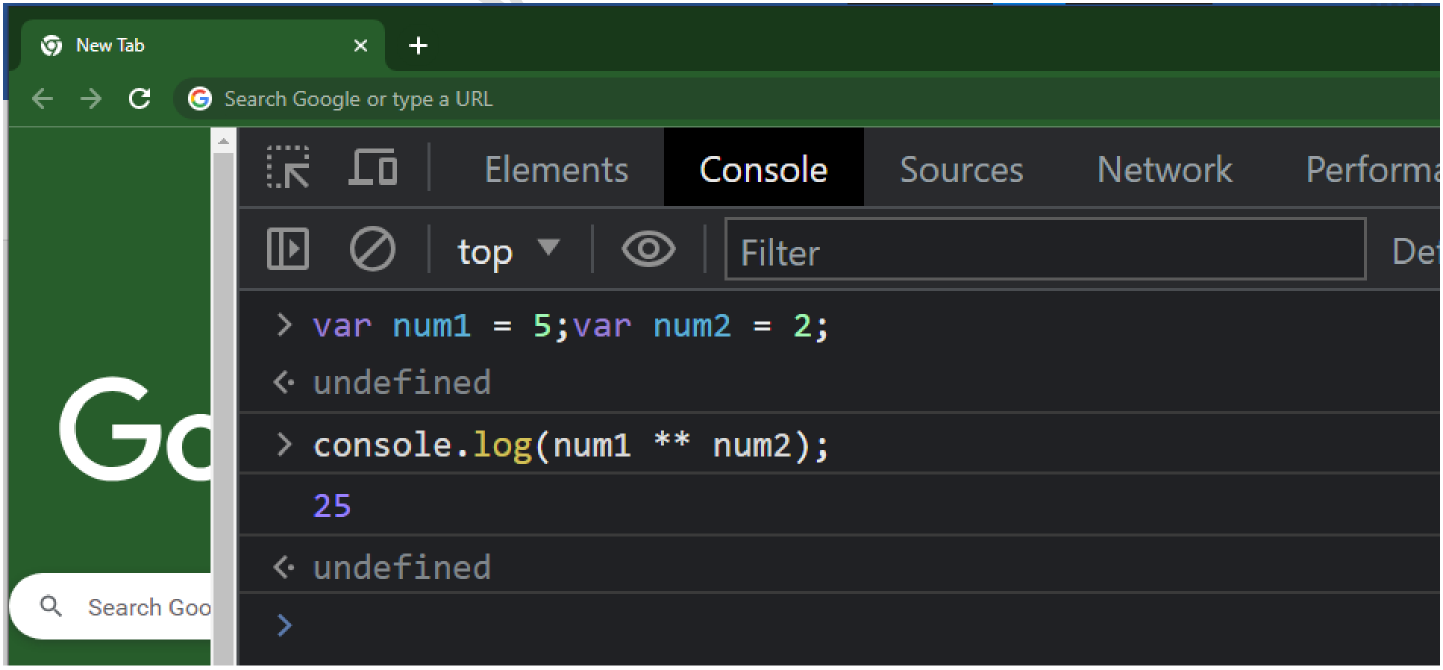


```
> var car = {
      name:"NANO",
      mode:2018,
      color: "yellow",
      weight : 1000,
      working : true
  };
<· undefined
> console.log(car);
  ▶ {name: 'NANO', mode: 2018, color: 'yellow', weight: 1000, working: true}  VM2482:1
<· undefined
>
```

wade

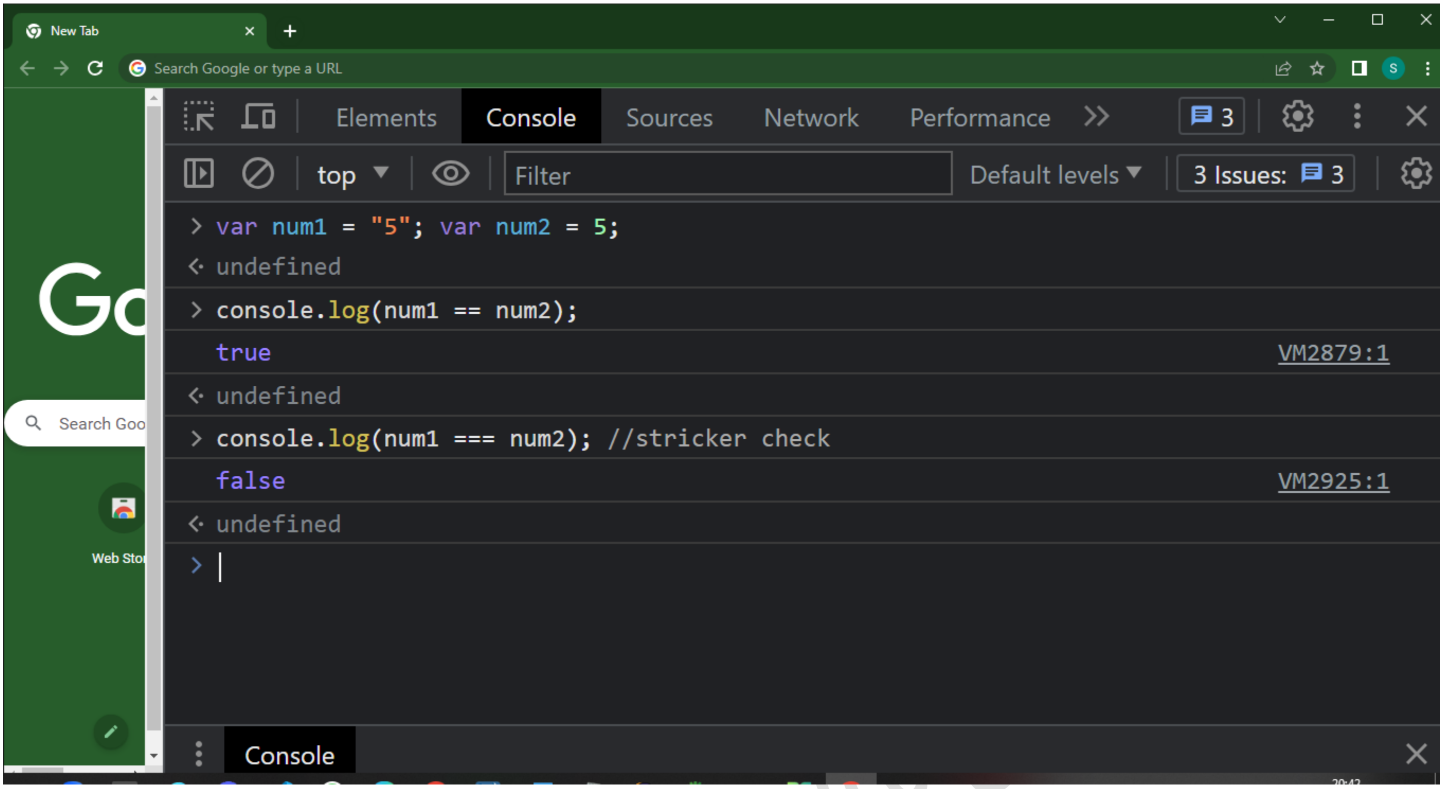
Comparison Operators:

1. Raise to (**) : (5^2) = 25



```
> var num1 = 5;var num2 = 2;
<· undefined
> console.log(num1 ** num2);
  25
<· undefined
>
```

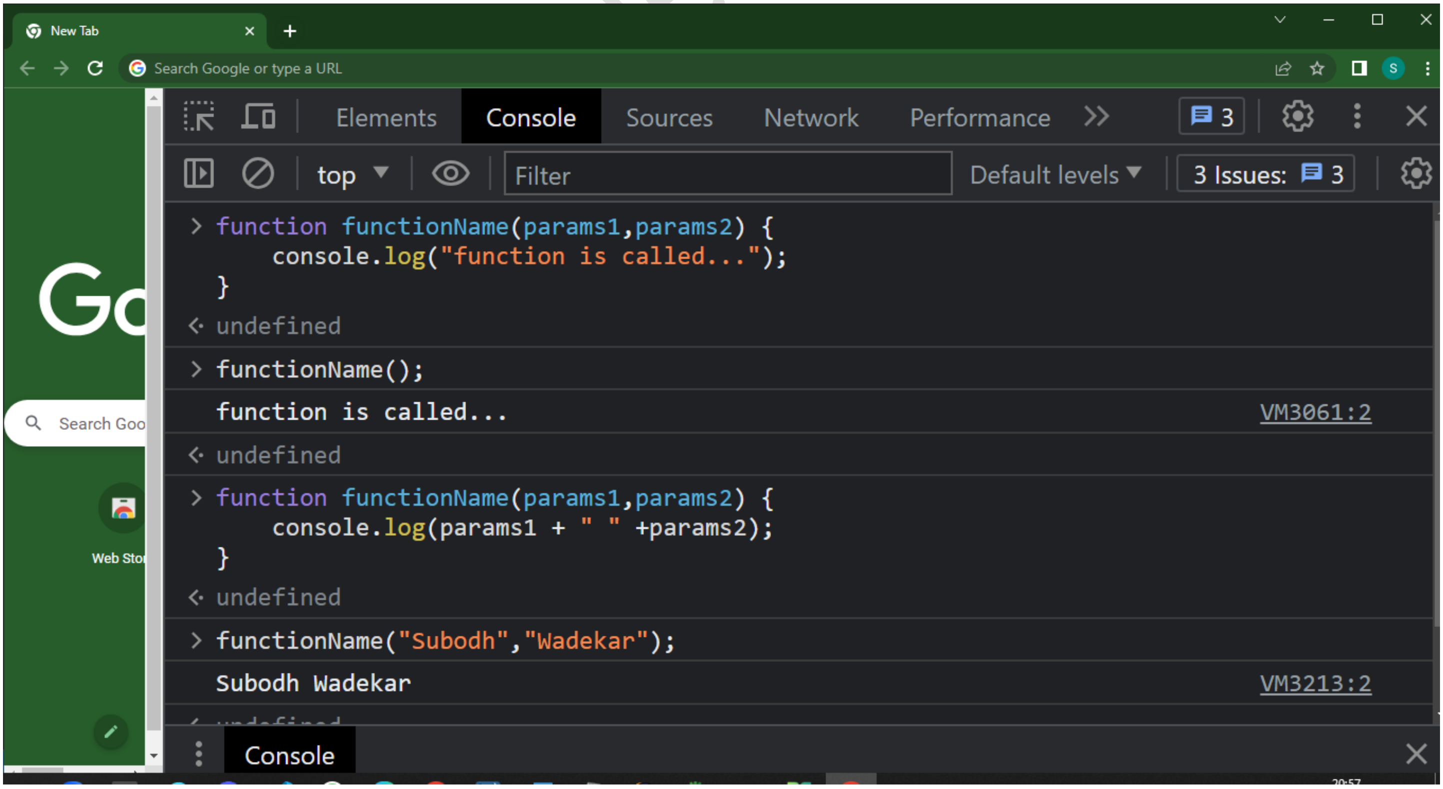
2. Stricker Check (===):



```
> var num1 = "5"; var num2 = 5;
< undefined
> console.log(num1 == num2);
  true                                                VM2879:1
< undefined
> console.log(num1 === num2); //stricker check
  false                                               VM2925:1
< undefined
>
```

Function:

```
function <functionName>(params1,params2){
        //body of function
}
```



```
> function functionName(params1,params2) {
      console.log("function is called...");
  }
< undefined
> functionName();
  function is called...                               VM3061:2
< undefined
> function functionName(params1,params2) {
      console.log(params1 + " " +params2);
  }
< undefined
> functionName("Subodh","Wadekar");
  Subodh Wadekar                                      VM3213:2
< undefined
```

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