

## Lesson 2 Demo 1

### Equality\_==\_vs\_===

**Objective:** To work on equality operator == vs ===

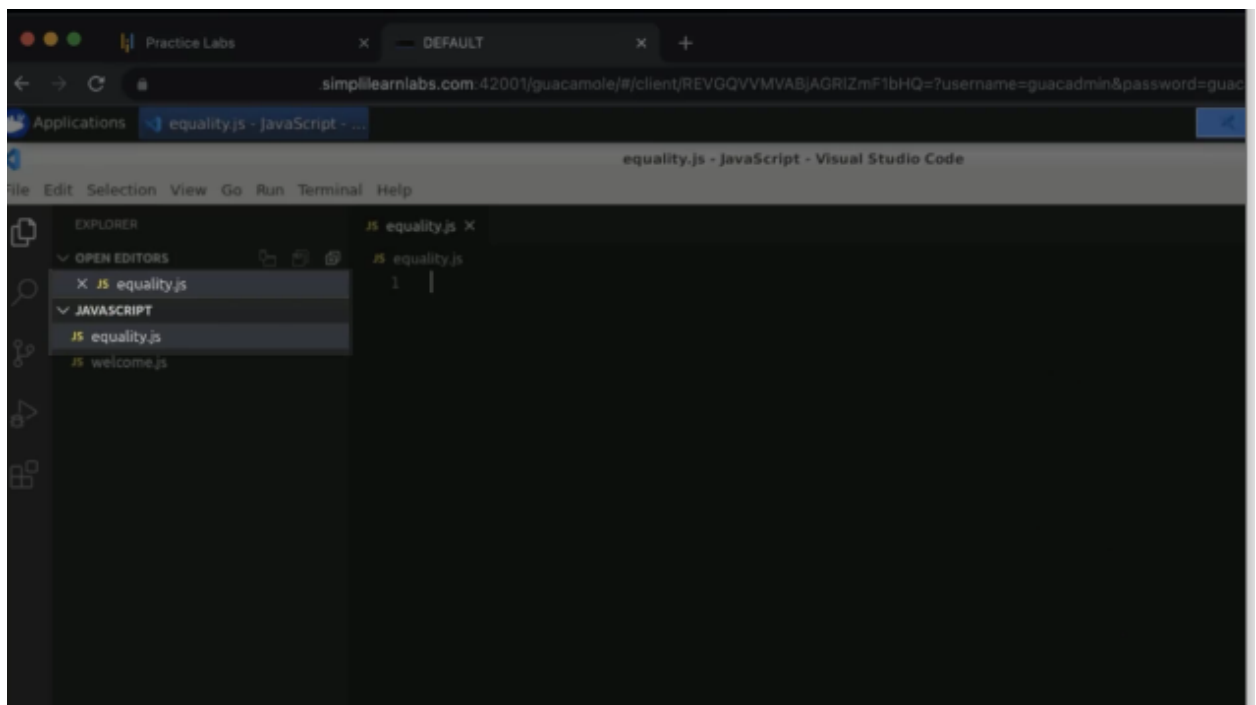
**Prerequisites:** None

Steps to be followed:

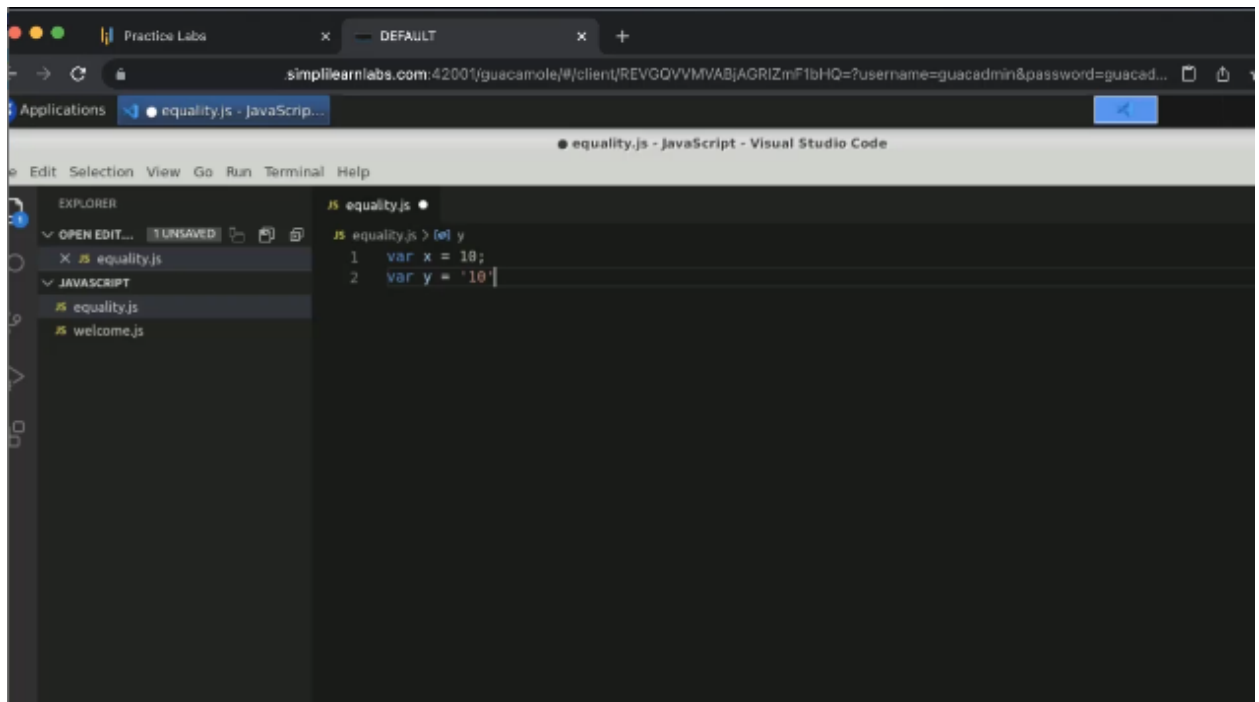
- Work on equality operator == vs ===

#### Step 1: Work on equality operator == vs ===

1.1 Create a new JavaScript program as 'equality.js'.



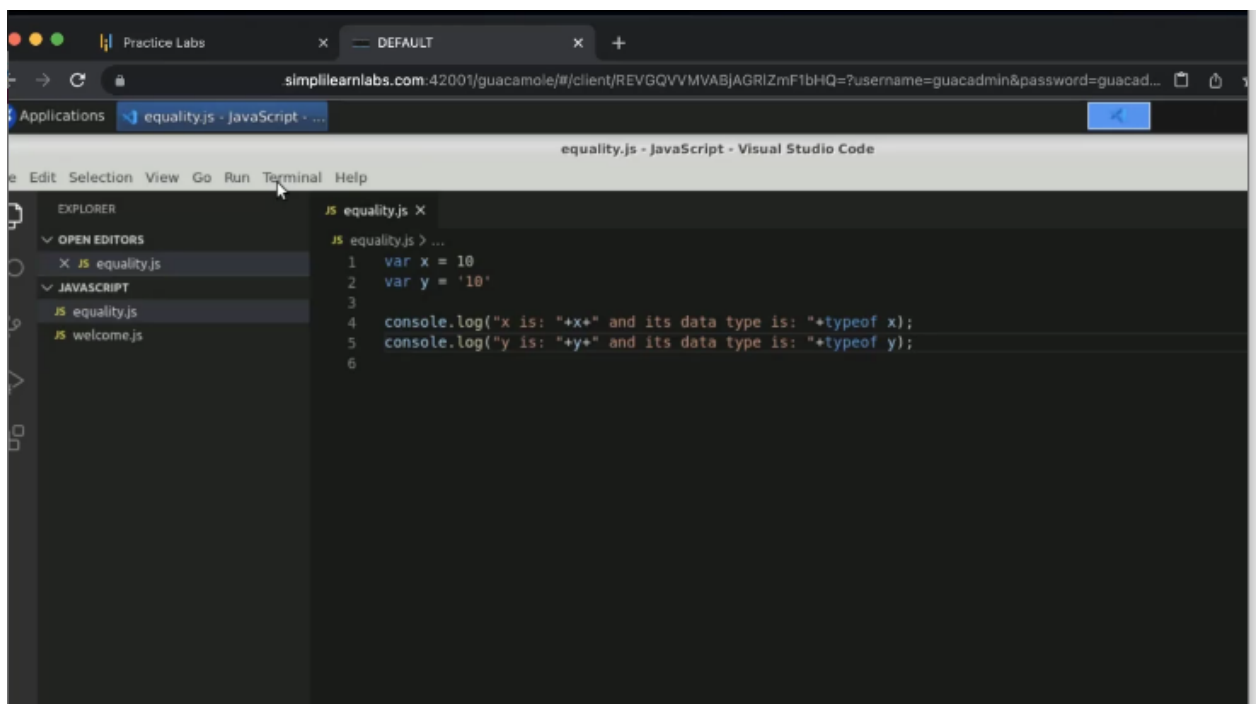
1.2 Add variables x and y with a value of 10.



The screenshot shows the Visual Studio Code editor interface. The Explorer panel on the left shows a file named 'equality.js' under the 'JAVASCRIPT' folder. The main editor window displays the following code in 'equality.js':

```
1 var x = 10;
2 var y = '10';
```

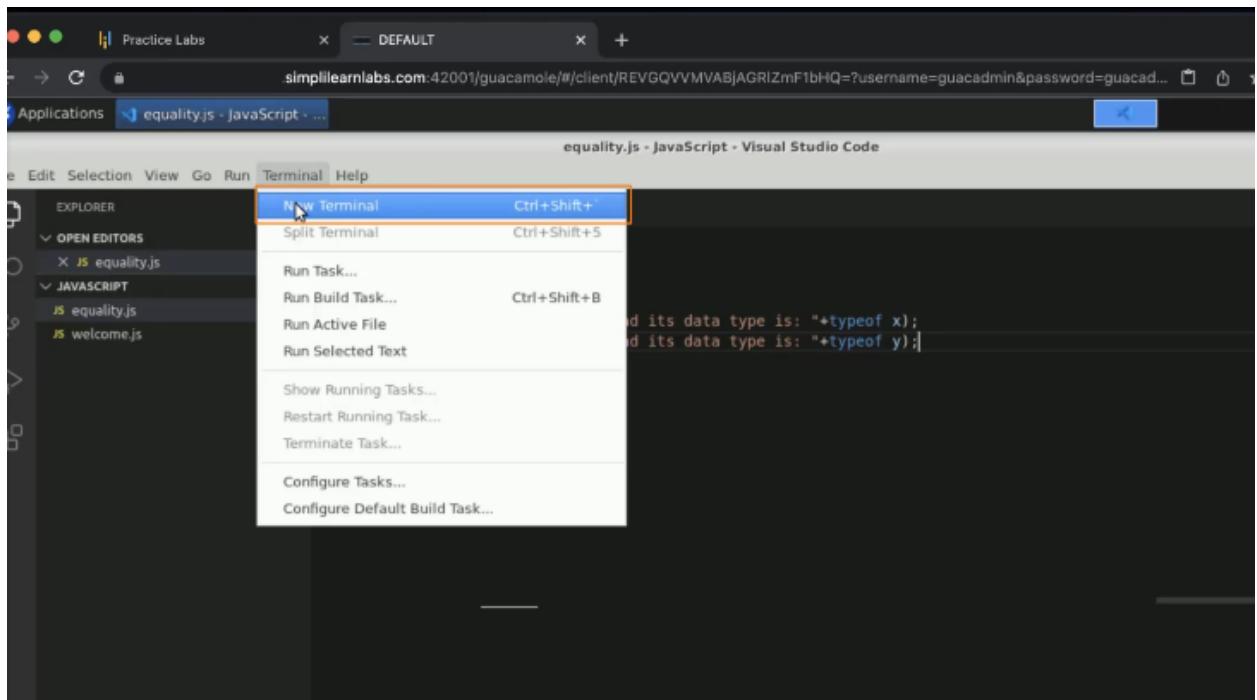
1.3 Perform logging on x and y.



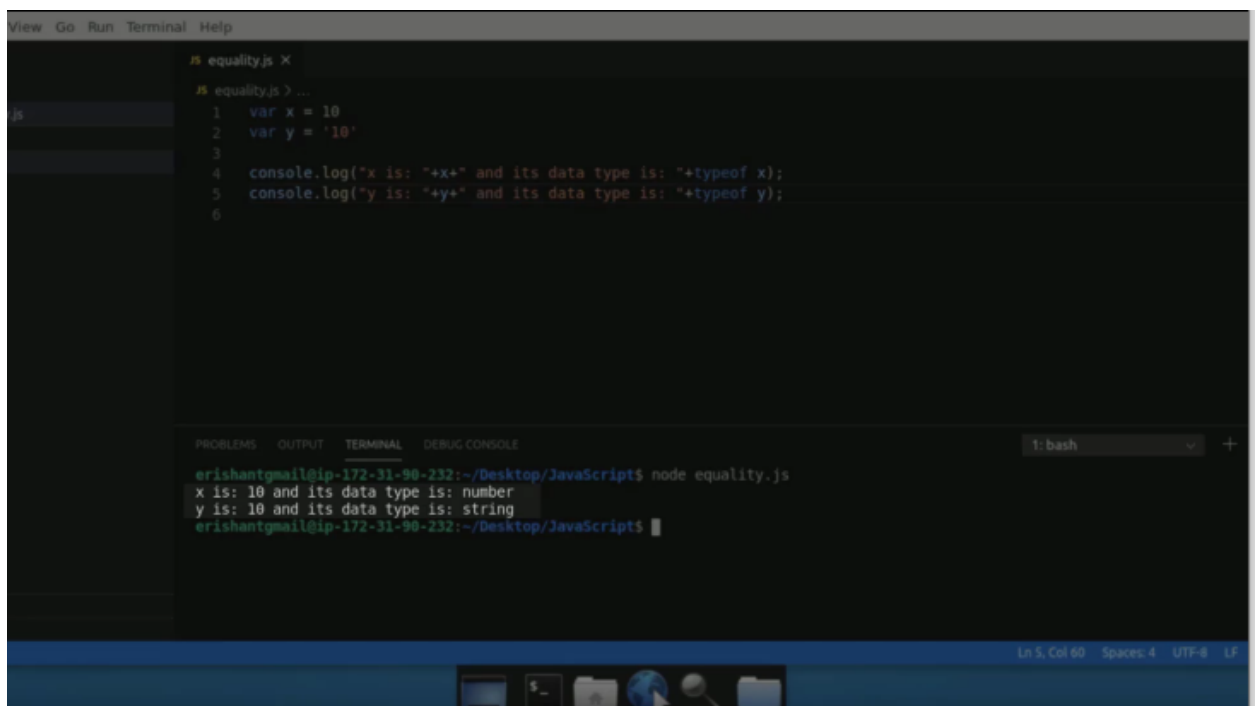
The screenshot shows the Visual Studio Code editor interface. The Explorer panel on the left shows a file named 'equality.js' under the 'JAVASCRIPT' folder. The main editor window displays the following code in 'equality.js':

```
1 var x = 10;
2 var y = '10';
3
4 console.log("x is: "+x+" and its data type is: "+typeof x);
5 console.log("y is: "+y+" and its data type is: "+typeof y);
6
```

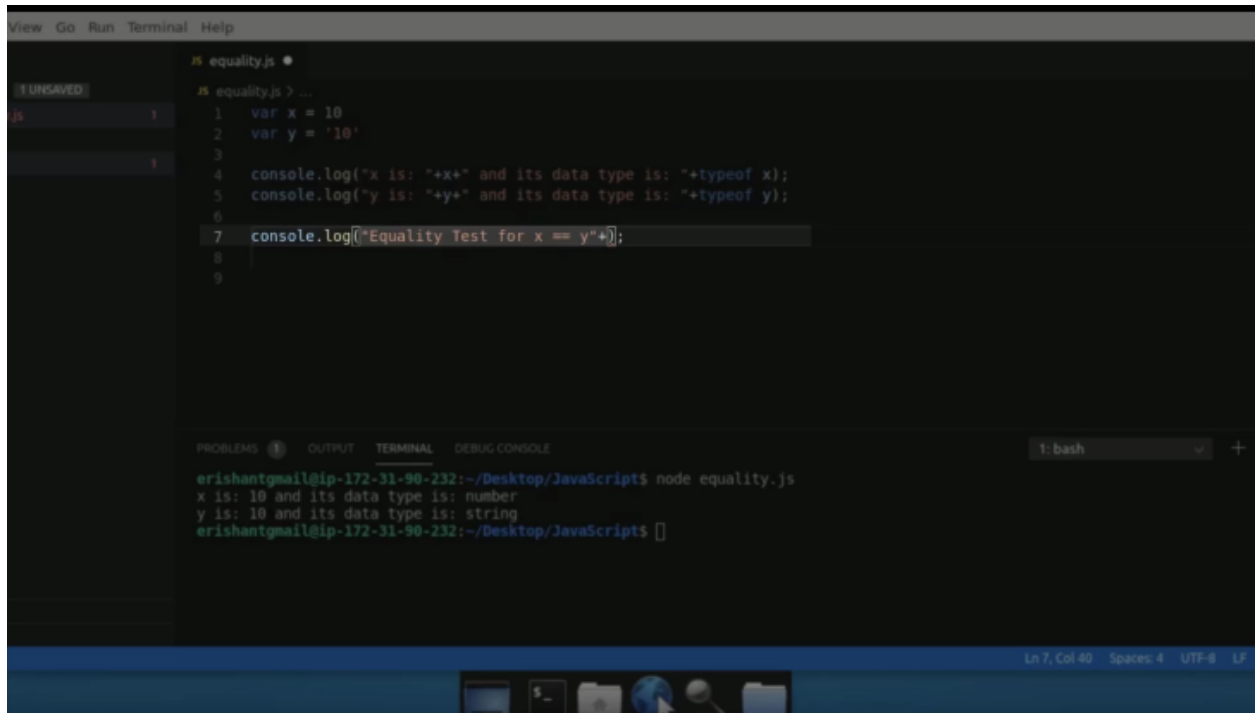
#### 1.4 Open the terminal.



#### 1.5 Run the 'equality.js'.



## 1.6 Create a log equality test for $x == y$ + $(x==y)$ .



```

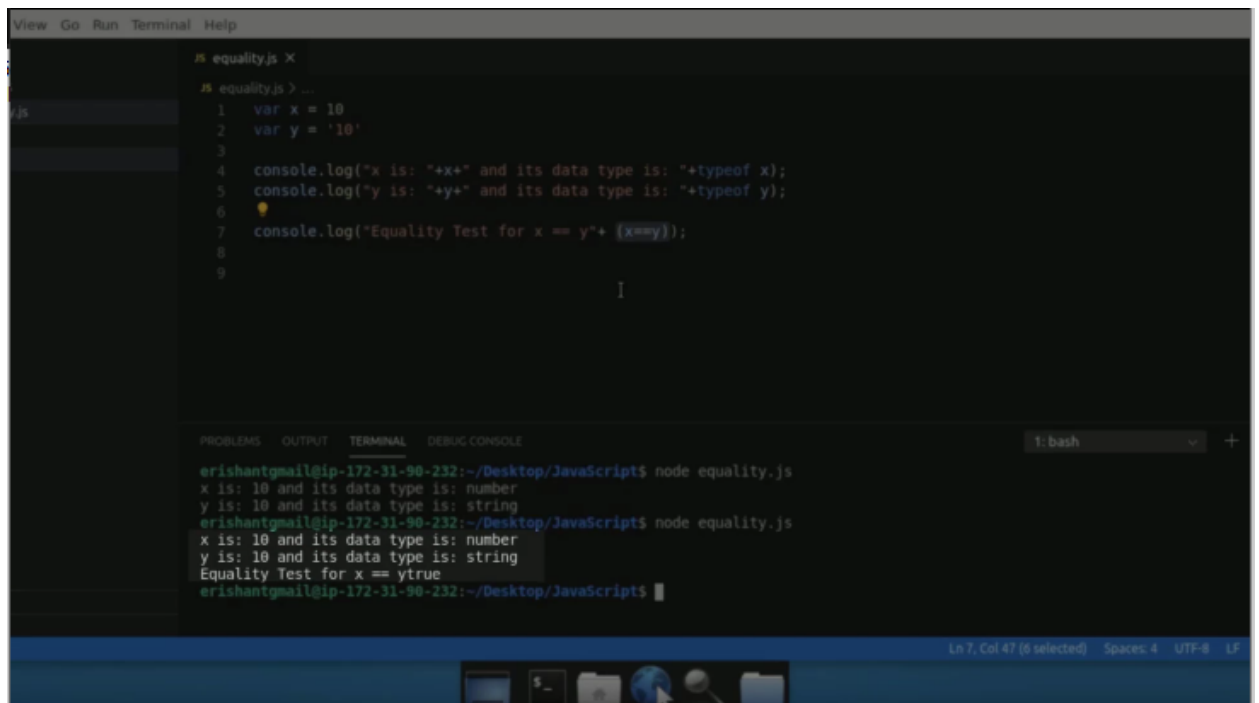
View Go Run Terminal Help

equality.js
1  var x = 10
2  var y = '10'
3
4  console.log("x is: "+x+" and its data type is: "+typeof x);
5  console.log("y is: "+y+" and its data type is: "+typeof y);
6
7  console.log("Equality Test for x == y"+);
8
9

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$ node equality.js
x is: 10 and its data type is: number
y is: 10 and its data type is: string
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$

```

## 1.7 Execute the program.



```

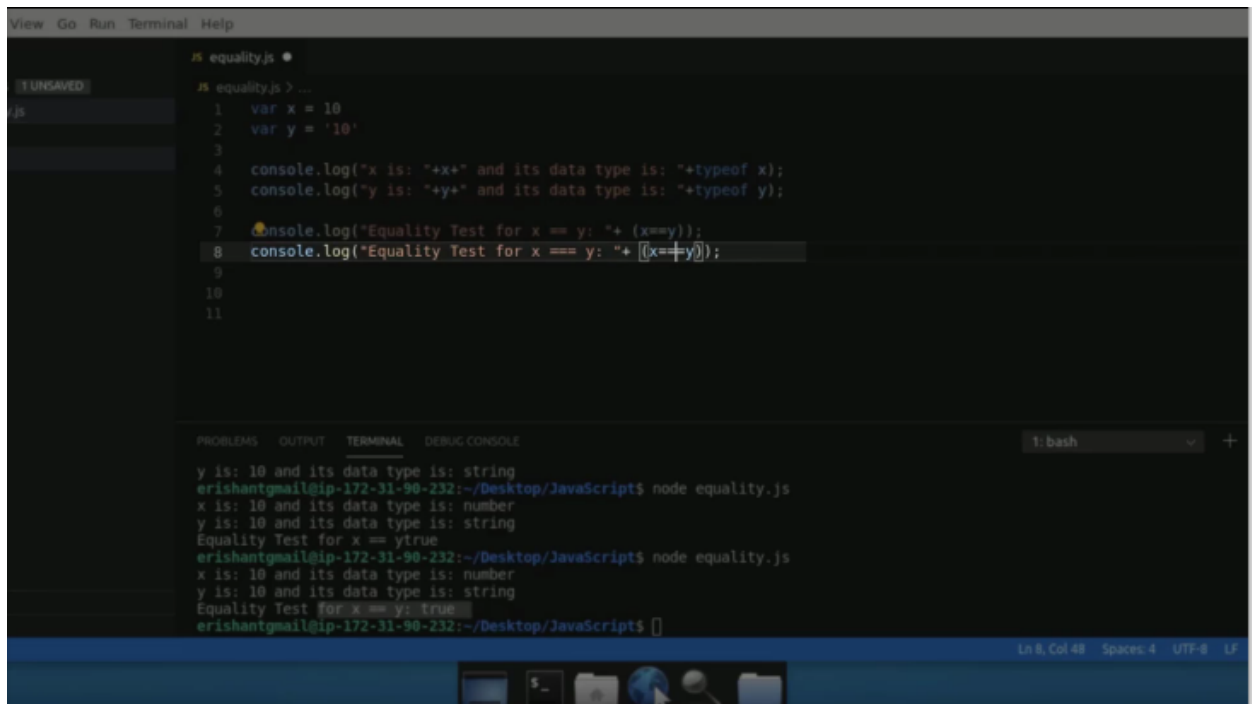
View Go Run Terminal Help

equality.js X
1  var x = 10
2  var y = '10'
3
4  console.log("x is: "+x+" and its data type is: "+typeof x);
5  console.log("y is: "+y+" and its data type is: "+typeof y);
6
7  console.log("Equality Test for x == y"+ (x==y));
8
9

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$ node equality.js
x is: 10 and its data type is: number
y is: 10 and its data type is: string
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$ node equality.js
x is: 10 and its data type is: number
y is: 10 and its data type is: string
Equality Test for x == ytrue
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$

```

1.8 Use triple equal to instead of double equal to in the previous step.



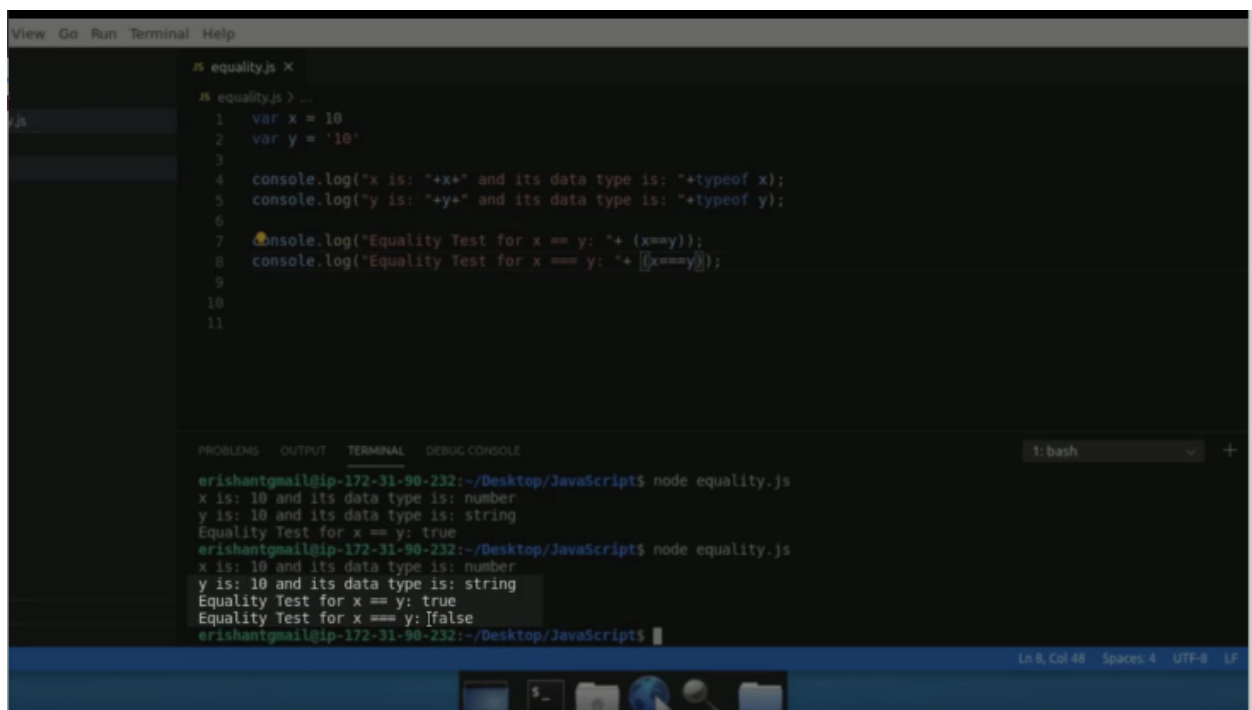
```

View Go Run Terminal Help

equality.js
1  var x = 10
2  var y = '10'
3
4  console.log("x is: "+x+" and its data type is: "+typeof x);
5  console.log("y is: "+y+" and its data type is: "+typeof y);
6
7  console.log("Equality Test for x == y: "+ (x==y));
8  console.log("Equality Test for x === y: "+ ((x===y)));
9
10
11

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
1: bash
y is: 10 and its data type is: string
x is: 10 and its data type is: number
y is: 10 and its data type is: string
Equality Test for x == y: true
x is: 10 and its data type is: number
y is: 10 and its data type is: string
Equality Test for x == y: true
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$
  
```

1.9 Run the program.



```

View Go Run Terminal Help

equality.js X
1  var x = 10
2  var y = '10'
3
4  console.log("x is: "+x+" and its data type is: "+typeof x);
5  console.log("y is: "+y+" and its data type is: "+typeof y);
6
7  console.log("Equality Test for x == y: "+ (x==y));
8  console.log("Equality Test for x === y: "+ ((x===y)));
9
10
11

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
1: bash
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$ node equality.js
x is: 10 and its data type is: number
y is: 10 and its data type is: string
Equality Test for x == y: true
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$ node equality.js
x is: 10 and its data type is: number
y is: 10 and its data type is: string
Equality Test for x == y: true
Equality Test for x === y: false
erishantgmail@ip-172-31-90-232:~/Desktop/JavaScript$
  
```

