

**JS**

Most Asked Question?

# Undeclared & Undefined Variables?



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# Undefined

JS

- The variables which are written in the code but haven't been assigned any value yet are called undefined.
- **Undefined** variable means a variable has been declared but it does not have a value

```
var dog;  
console.log(dog);
```

# Undeclared

JS

- The variables which don't exist in the memory heap area, ie., not written inside the code, are called undeclared.
- **Undeclared** variable means that the variable does not exist in the program at all.

```
var dog;  
console.log(cat);
```

ReferenceError: cat is not defined

# Undeclared & Undefined

S.No.	undeclared	undefined
1.	These are the variables that do not exist in the memory heap.	These variables are the ones that do exist in memory but nothing is being assigned to them explicitly by the programmer.
2.	The variables are considered to be undeclared because of programmer does not write them with var, let, or const.	The variables are considered to be undefined because it is assigned by javascript to them.
3.	If we try to access them in the code execution phase then javascript will throw a Reference error.	If we try to access these variables we'll get the undefined as value.



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