

Prototype vs constructor count

Let's analyze this line by line 

Code:

```
js

function Counter() {}
Counter.prototype.count = 0;

console.log("CounterPrototype--->", Counter.count)
```

Step-by-step Explanation:

1. `function Counter() {}`

This creates a constructor function named `Counter`.

2. `Counter.prototype.count = 0;`

- Here, you are adding a property called `count` to the **prototype object** of `Counter`.
- So internally, it looks like this:

```
js

Counter.prototype = { count: 0, constructor: Counter }
```

- Any instance created with `new Counter()` will inherit this `count` property from the prototype.

3. `console.log("CounterPrototype--->", Counter.count)`

- Here, you are accessing `count` on the **function object itself**, i.e., the constructor function `Counter`, **not on its prototype**.
- But you never defined a property `count` directly on `Counter` — only on `Counter.prototype`.

 `Counter.prototype.count` exists

 `Counter.count` does **not** exist

Output:

```
bash

CounterPrototype---> undefined
```

Key takeaway:

- `Counter.prototype.count` → refers to a property on the prototype (used by instances)
- `Counter.count` → refers to a property on the constructor function itself (not related to prototype)

If you log the prototype's property:

```
js  
  
console.log("CounterPrototype--->>", Counter.prototype.count)
```

👉 Output will be:

```
lua  
  
CounterPrototype--->> 0
```