

Q1. Difference between let and var?

Ans. var and let are both used for variable declaration in javascript but the difference between them is that var is function scoped and let is block scoped.

It can be said that a variable declared with var is defined throughout the program as compared to let.

Example of var:

Input:

```
console.log(x);
```

```
var x=5;
```

```
console.log(x);
```

Output:

```
undefined
```

```
5
```

Example of let:

Input:

```
console.log(x);
```

```
let x=5;
```

```
console.log(x);
```

Output:

```
Error
```

Q2. Why are null, array printed as object type in console?

Ans. null is not an object. That `typeof null == 'object'`; returns true is because of a bug that can't be fixed in JavaScript (presently, but may change in the future

In order to accommodate Java's concept of null which, due to the strongly-typed nature of Java, can only be assigned to variables typed to a reference type (rather primitives), Eich chose to position the special null value at the top of the object prototype

chain (ie. the top of the reference types), and to include the null type as part of the set of "object-type primitives".