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## CHAP 6: undefined vs not defined in JS

"undefined is a keyword (special keyword) / placeholder that is placed in the memory."

console.log(a); (6.1)

a = 10;

console.log(a); (6.2)

console.log(x); (6.3)

=> In (6.1), it will give output as 'undefined', because as you know 'undefined is like a placeholder till a variable is not assigned a value'. Therefore, in the memory creation phase '0 will be given a placeholder called undefined'.

=> In (6.2), after the code execution phase, 'a will be assigned 10'.



⇒ In 6.3, it will throw an error 'x is not defined', because it will find 'no x is initialized in the program', which means even program hasn't processed any memory for x, therefore not defined.

\* Also, JS is loosely typed / weakly typed language since it doesn't depend on data type declarations.

• Ex:

```
console.log(a);
```

```
a = 10;
```

```
console.log(a);
```

```
a = "Hello";
```

```
console.log(a);
```

• Output:

undefined

10

Hello

• Summary of this chapter by Avik Kundu:

1) Undefined is like a placeholder till a variable is not assigned a value.

2) undefined == not defined

3) JS - weakly typed language since it doesn't depend on data type declarations.