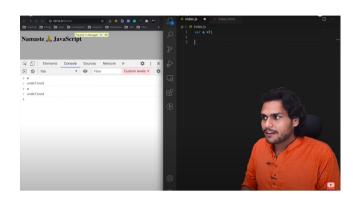
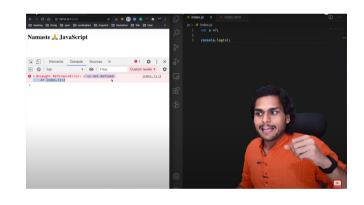
In memory creation phase before the code is executed.

JS stores the variable with a special placeholder called undefined during the memory creation phase.

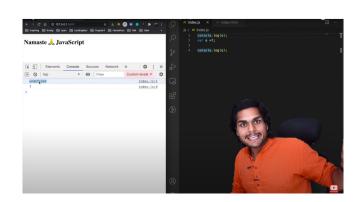


The we try to console se then it gives us reference errors; it is not defined this is because we have not yet allocated memory for se and yet we are trying to access it. So, right now so is not defined.



> So, the basic difference between undefined and not defined is that when we try to access a variable before its initialization then it gives us undefined, since Is has allocated memory for that variable in memory crowthin phase and given it a value of undefined.

Whereas we get not defined when we try to access a variable which has not been allocated memory by Is engine yet.



In above code we get the following of p, because in memory creation phase JS has allocated memory to 'a' and given it a value of undefined, so when we try to access the variable before its initialization; then it gives us undefined. This is called hoisting. "Columns adecidation phase)

-> While we get of as 7' in the 4 because during code execution phase, value of a has changed from under ned to 7 when JS engine runs line 2.

Note: Undefined does not mean empty. It is a special boynord which is given to a variable for the time being until it is initialised.

Note: Is a loosely typed lenguage. This means that Is does not attach itself to any porticular douts type. This means that if we put an integer in a variable, later on we can change its value and also plet a string in it. Loosely typed languages are also known as weakly typed lenguages.

Note: We should not write like var a zundefind; Although above able is not wrong but it is a bad practice to write like this, since undefined is a special keyword. This can lead to a lot of inconsistencies.