Scopes

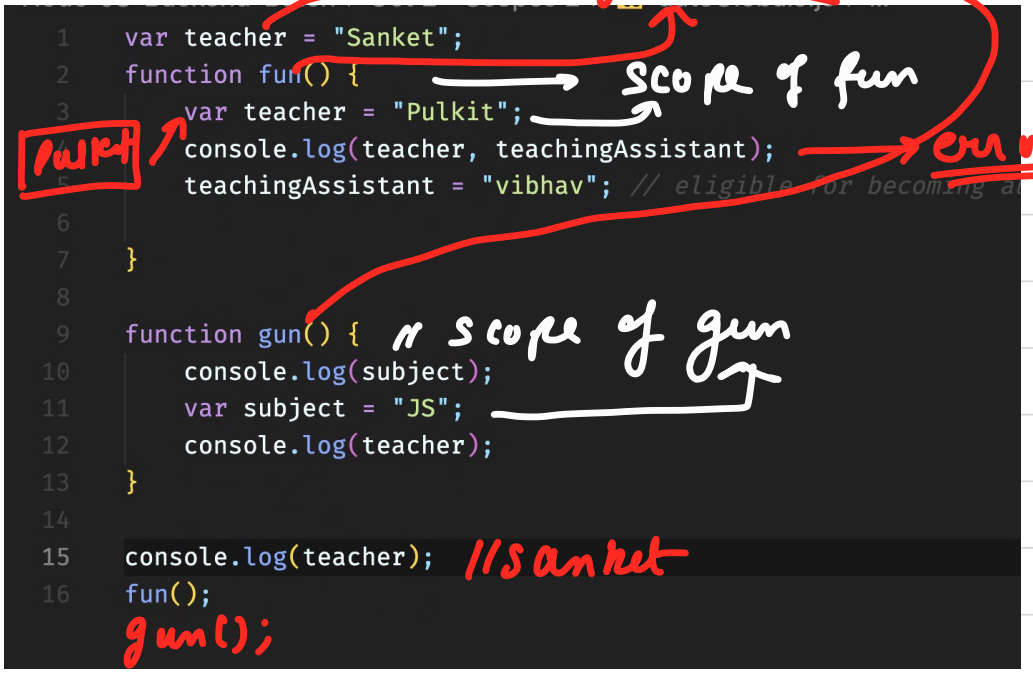
undefined vs undeclared

undefined is a variable state when the scopes already know about it but in the execution phase we have not allocated it a value.

undeclared is a variable state when we never formally declared a variable & before assigning

it a value so that it has chance to become

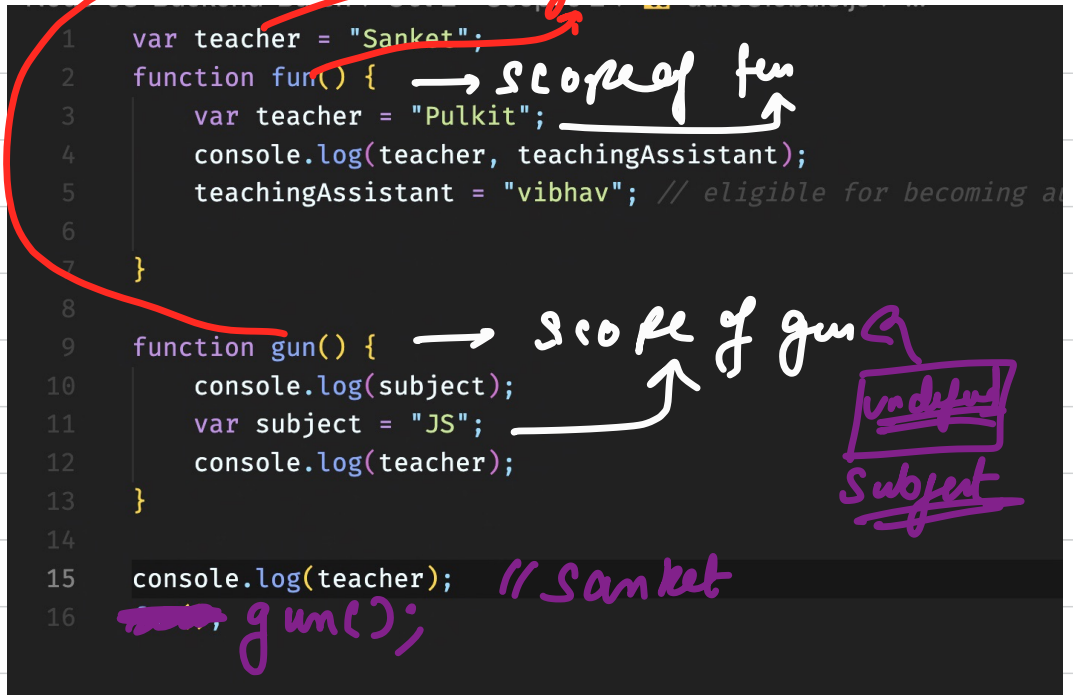
autoglobal, we try to use it.



phase → 1 → parsing

phase → 2 execution

this is the case where teacher assistant is undeclared.

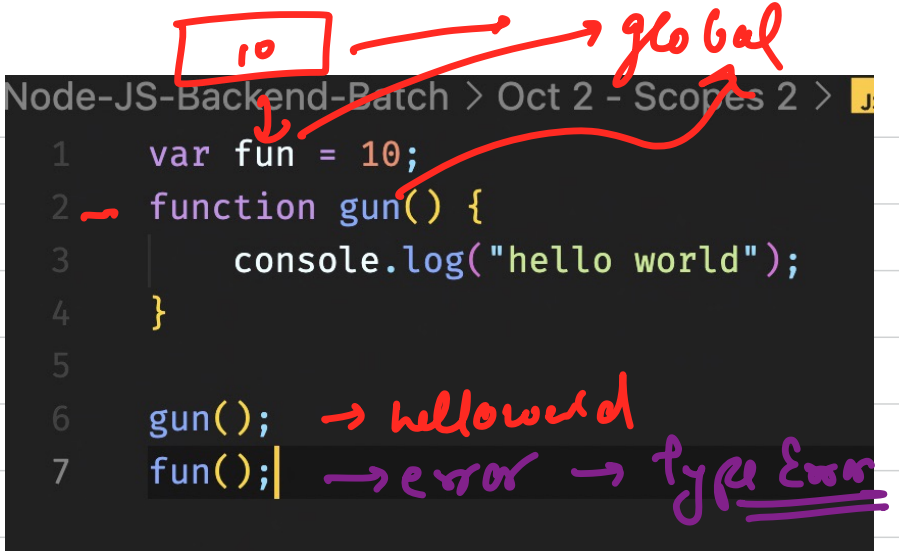


phase → 1

execution

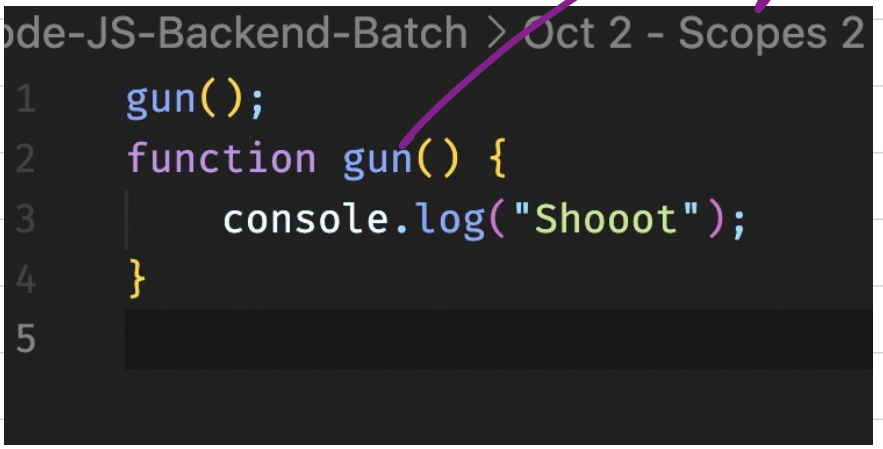
This is the case when subject is declared but undefined.


global
Node-JS-Backend-Batch > Oct 2 - Scopes 2 > JS autoGlobals1.js
function fun() {
teachingAssistant = "Vibhav";
console.log(teachingAssistant);
var teachingAssistant = "JD";
}
fun();



Phase-1

Phase-2

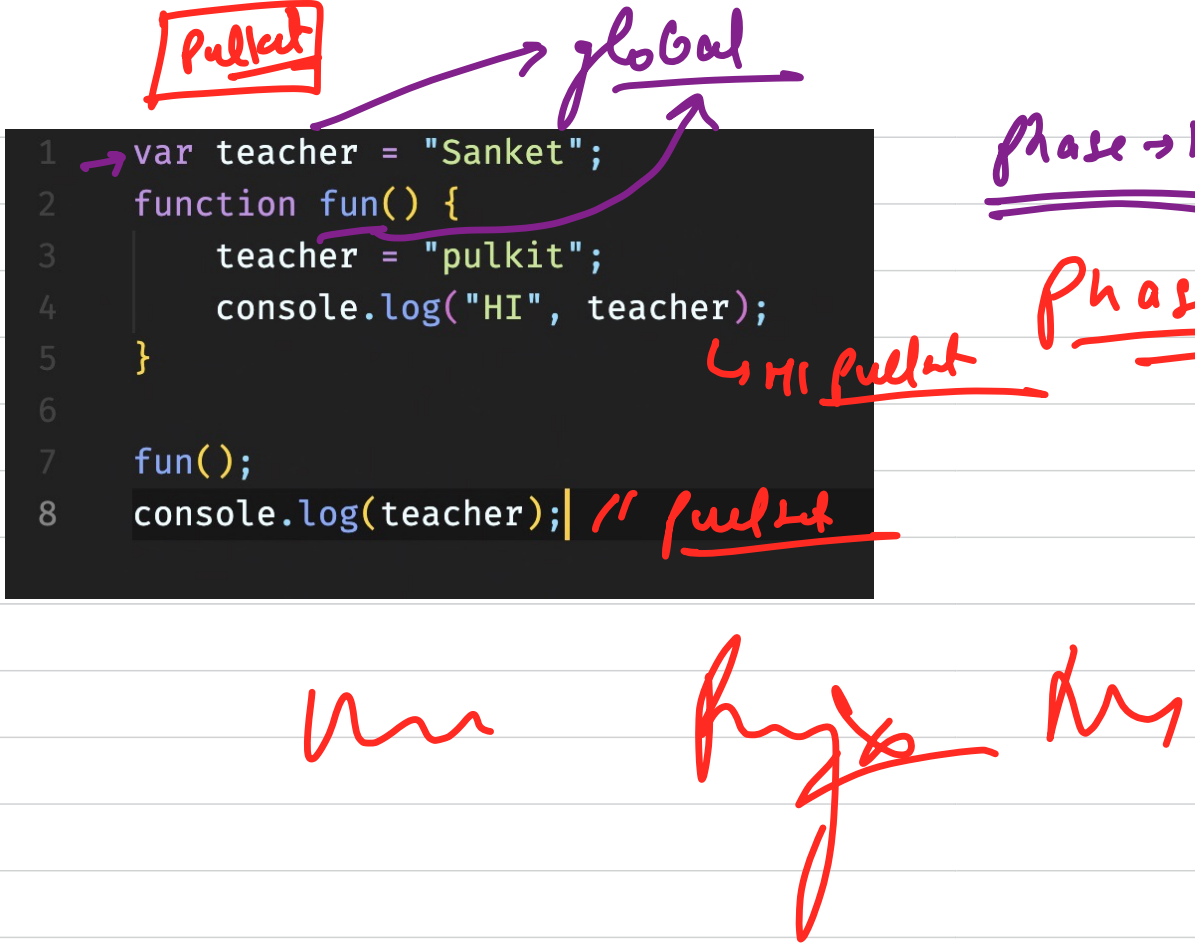


global

Phase-1

Phase-2

Hoisting is a direct consequence of lexical parsing that happens in JS, due to which we are able to access some func^n & variables before declaring them. which gives us a notion that they are moved up in the file.


Pulkit
global
var teacher = "Sanket";
function fun() {
teacher = "pulkit";
console.log("HI", teacher);
}
fun();
console.log(teacher);
Phase → 1
Phase → 2
HI Pulkit
Pulkit