**Block and Scope in JavaScript**

Block is a space in JavaScript which allows us to give multiple commands where JavaScript expects a single command.

Scope tells about scope of a variable defined inside a block

Example:

{

var a=10;

let b=20;

const c=30;

console.log(a);

console.log(b);

console.log(c);

}

console.log(a);

Here var a is in global scope where as let b and const c are in block scope

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So when we run the script a is accessible outside the block where as b and c are not.

Shadowing

Variable has shadowing feature so when you re-assign to different value inside the block it overshadows the previous value.

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In case of let if we carefully observe there are 3 types of scope

Global scope where var a is present

Then there is block scope where let b and const c are present

Script scope where let and const reside if declared outside the block

Same thing applies to const ‘C’ as well.

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Illegal Shadowing:

Let suppose let b ide declared and initialized and I f you try to shadow using a var to same variable ‘b’ you will receive syntax error.

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However if you try to do the vice-versa or put var ‘b’ inside a function it would not cause the issue reason being they are in different boundary.

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**The same thing applies to const C as well and it also follows lexical scope.**