Que:- What is shadowing in JavaScript?
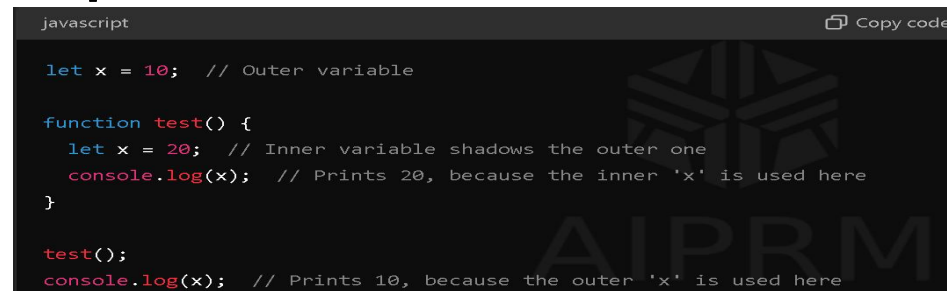
Shadowing in JavaScript happens when a variable in a smaller scope (like inside a function or block) has the same name as a variable in a larger scope (like global scope). The inner variable "shadows" or hides the outer one within its own scope.

Example:-

```javascript
let x = 10;  // Outer variable

function test() {
  let x = 20;  // Inner variable shadows the outer one
  console.log(x);  // Prints 20, because the inner 'x' is used here
}

test();
console.log(x);  // Prints 10, because the outer 'x' is used here
```

Summary:

- **Outer Variable**: $x = 10$ (global scope)
- **Inner Variable**: $x = 20$ (function scope)
- **Inside Function**: Uses the inner x
- **Outside Function**: Uses the outer x

Shadowing hides the outer variable while inside the inner scope.