Pure Function in Javascript

What is Pure Function?

A pure function in JavaScript is like a special kind of function that always gives the same output for the same input and doesn't have any side effects. This means it doesn't change anything outside of the function.ans, objects, and even other arrays.

Let's Understand with Real Life Example:

Imagine you have a machine that takes a number and doubles it. This machine is a pure function because no matter how many times you put in the number 5, it will always give you 10 as the output, and it won't mess up anything else in your room.
javascript

```javascript
function doubleNumber(number) {
  return number * 2;
}
```

Explanation of Previous Slide Code:

- **The doubleNumber function** takes an input, which is the number.
- It performs a specific operation on that input **(multiplying it by 2).**
- It **returns the result** as the output.

Now, if you use doubleNumber(5), you'll always get 10, and it won't do anything else like changing the room's temperature or making a mess. That's what makes it a pure function — it's predictable, consistent, and doesn't have any hidden effects on the world outside the function.