ANONYMOUS FUNCTIONS
VS
NAMED FUNCTIONS
VS
ARROW FUNCTIONS
IN
JAVASCRIPT

1. Anonymous Functions

An anonymous function is a function without a name. These functions are often used as arguments to other functions or assigned to variables.

```javascript
// Anonymous function assigned to a variable
let greet = function() {
    console.log("Hello, World!");
};


greet(); // Output: Hello, World!
```

2. Named Functions

Named functions are functions that have a name. They are defined using the function keyword followed by the function name.

```javascript
// Named function
function sayHello() {
    console.log("Hello!");
}


sayHello(); // Output: Hello!
```

3. Arrow Functions

Arrow functions are a shorter syntax for writing function expressions. They do not have their own this context and are always anonymous. Arrow functions are particularly useful for writing concise code, especially in cases like array manipulations with methods like map, filter, and reduce.

```javascript
// Arrow function with no parameters
let sayHello = () => {
    console.log("Hello, Arrow Function!");
};


sayHello(); // Output: Hello, Arrow Function!


// Arrow function with one parameter
let greet = name => {
    console.log(`Hello, ${name}!`);
};


greet("Alice"); // Output: Hello, Alice!
```