Day 7 – [27th June 2025]

TOPICS COVERED

JavaScript Functions:

Function Declaration & Calling:

A function must be declared before it can be called.

```
function greet(name) {
  console.log("Hello, " + name);
}
greet("Navpreet"); // Output: Hello, Navpreet
```

Return Function:

A function can return a value using return.

```
function square(n) {
  return n * n;
}
let result = square(4);
console.log(result); // Output: 16
```

Block Scope of var vs let:

var is function-scoped, while let is block-scoped.

```
{
  var x = 10;
  let y = 20;
}
console.log(x); // 10
console.log(y); // ReferenceError: y is not defined
```

Arrow Function:

A shorter syntax for function expressions.

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```
const add = (a, b) => a + b;
console.log(add(2, 3)); // Output: 5
```

Higher Order Function:

A function that takes another function as an argument or returns a function.

```
function greetUser(callback) {
  console.log("Start");
  callback();
  console.log("End");
}
function sayHi() {
  console.log("Hi!");
}
greetUser(sayHi);
// Output:
// Start
// Hi!
// End
```

Callback Function:

A function passed into another function as an argument.

```
function processInput(input, callback) {
  callback(input);
}
processInput("Navpreet", function(name) {
  console.log("Welcome, " + name);
}); // Output: Welcome, Navpreet
```

TOOLS USED:

Visual Studio Code (VS Code)

Chrome (Console Tab)

TASK:

◈ Read and understand:

DOM Manipulation

Asynchronous JavaScript

Promises

API Calls