Training Day 4

24th June 2025

TOPICS COVERED

• JavaScript Coercion: Abstract vs Strict Equality

• Hoisting

Hoisting means that variable and function declarations are moved to the top of their scope before code execution.

var declarations are hoisted and initialized as undefined

let and const are hoisted but not initialized (in Temporal Dead Zone)

Function declarations are fully hoisted

```
Example:
```

```
console.log(x); // undefined var x = 10;
```

TOOLS USED

Visual Studio Code (VS Code)

Chrome Browser (JavaScript Console)

TASK

```
Practice writing different types of loops.
```

```
for Loop
for (let i = 0; i < 5; i++) {
 console.log(i);
}
Output: 0 1 2 3 4
 while Loop
let i = 0;
while (i < 5) {
 console.log(i);
i++;
Output: 0 1 2 3 4
do-while Loop
let i = 0;
do {
console.log(i);
i++;
\} while (i < 5);
Output: 0 1 2 3 4
```

```
for-of Loop (for arrays, strings)

for (let i of "Navneet") {
   console.log(i);
}

Output: N a v n e e t

for-in Loop (for objects)

let obj = { name: "Navneet", age: 19 };

for (let key in obj) {
   console.log(key + ": " + obj[key]);
}

Output: name: Navneet
   age: 19
```