ProSensia Internship Report

Week: 4 Day: 3

Date: 7-16-2025

Intern Name: Hamza Rafique

V Topics Covered:

1. Operators in JavaScript

- Arithmetic Operators: +, -, *, /, %, **, ++, --
- Assignment Operators: =, +=, -=, *=, /=, %=, **=
- Comparison Operators: ==, ===, !=, !==, >, <, >=, <=
- Logical Operators: &&, ||,!

2. Conditional Expressions in JavaScript

• If-Else Example:

```
js
CopyEdit
if (age >= 18) {
    console.log("Adult");
} else {
    console.log("Minor");
}
```

• Else If Ladder:

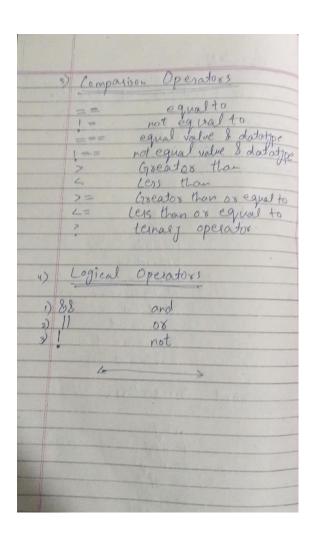
```
js
CopyEdit
if (score >= 90) {
    grade = "A";
} else if (score >= 80) {
    grade = "B";
} else {
    grade = "C";
}
```

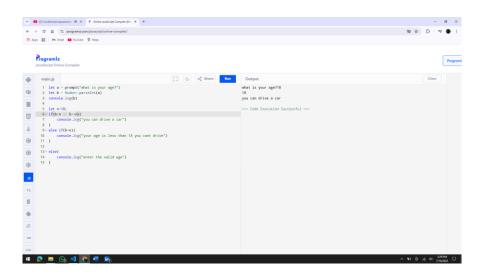
• Ternary Operator:

```
js
CopyEdit
let result = (marks >= 40) ? "Pass" : "Fail";
```

Screenshot of Practice Code / Output:

	Operators	
	There are 4 baintypes of operation	tor
27	Axithemetic Operator Assignment Operator Comparison Operator Logical Operator	
1)	Asithmetic Operators	
3)	+ Addition - Subtraction / Division	
0	* Multiplication 1. Modulus The Increment	-
8)	Decrement Exponention	
	Assignment Operators	
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
Dept.	/=	
7)	*= X = X * Y	





What I Learned:

- How to apply different types of JavaScript operators.
- The difference between == and ===.
- Writing conditional logic using if-else and ternary operators.

% Skills Improved:

- Logical thinking in code
- JavaScript conditionals and operators
- Clean and readable syntax