

# Comments in JS

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Part of Code which is **not executed**

```
1  //This is a single line comment
2
3  /* This is a multi-line
4  |   comment. */
```

# Operators in JS

Used to perform some **operation** on data

## Arithmetic Operators

**+, -, \*, /**

- **Modulus**
- **Exponentiation**
- **Increment**
- **Decrement**

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# Operators in JS

## Assignment Operators

**=   +=   -=   \*=   %=   \*\*=**

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# Operators in JS

## Comparison Operators

Equal to **==**

Not equal to **!=**

**>, >=, <, <=**

Equal to & type

Not equal to & type

**===** also check data type

**!==**

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# Operators in JS

## Logical Operators

Logical AND    **&&**

Logical OR    **||**

Logical NOT    **!**

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# Conditional Statements

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To implement some condition in the code

if Statement

```
let color;  
if(mode === "dark-mode") {  
  color = "black";  
}
```

# Conditional Statements

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## if-else Statement

```
let color;  
if(mode === "dark-mode") {  
  color = "black";  
} else {  
  color = "white";  
}
```

# Conditional Statements

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## else-if Statement

```
if(age < 18) {  
    console.log("junior");  
} else if (age > 60) {  
    console.log("senior");  
} else {  
    console.log("middle");  
}
```



# Operators in JS

## Ternary Operators

condition ? true output : false output

```
age > 18 ? "adult" : "not adult";
```

**MDN Docs**

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# Let's Practice

**Qs1. Get user to input a number using prompt("Enter a number:"). Check if the number is a multiple of 5 or not.**

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# Let's Practice

**Qs2. Write a code which can give grades to students according to their scores:**

- **80-100, A**
- **70-89, B**
- **60-69, C**
- **50-59, D**
- **0-49, F**

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