console.log() Output data to the console

```js
// Print any text or variable
console.log("👋 Howdy!");
// Print inside single or double quotes
console.log('👋 Howdy!');
```

Comments Used for documentation

```js
// Single line comment
console.log('Hi');
/* Multi-line comment
console.log("Hi"); */
```

let Used for variables where value will change

```js
let score = 0;
score = 3;
console.log(score);   // Output: 3
```

const Used for variables where the value is constant

```js
const userID = 161803;
console.log(userID);   // Output: 161803
```

Data Types The five most used data types

```js
// Numbers
let year = 2024;
// Strings
let user = "@MrBeast";
// Boolean
let hungry = true;
// Null
let newHire = null;
// Undefined
let startingDate = undefined;
```

Logical Operators Evaluate two conditions

```js
a && b  # true if both conditions are true
a || b  # true if one condition is true
!a      # true if the condition is false
```

Comparison Operators Compare two values

```js
a === b  // Strict equal
a !== b  // Strict not equal
a < b    // Less than
a <= b   // Less than or equal  to
a > b    // Greater than
a >= b   // Greater than or equal to
```

Arithmetic Operators Everyday math operations

```js
score = 4 + 3        // Addition
score = 4 - 3        // Subtraction
score = 4 * 3        // Multiplication
score = 4 / 3        // Division
score = 4 % 3        // Modulus
score = 4 ** 3       // Exponent
```

Conditionals Control the order of code execution

```js
if (num > 0) {
  console.log("number is positive");
} else if (num == 0) {
  console.log("number is zero");
} else {
  console.log("number is negative");
}
```

While Loop Will run until condition is true

```js
let count = 0;
while (count < 5) {
  console.log(count);
  count++;
} // Will print numbers from 0-4
```

For Loop Runs based on an iterator variable

```js
for (let i = 1; i <= 3; i++) {
  console.log("Beetlejuice!");
}
// Will print "Beetlejuice!" 3 times
```

Continue Keyword skips an iteration in a loop

```js
for (let i = 0; i < 5; i++) {
  if (i == 1) {
    continue;
  }
  console.log(i);
} // Will print numbers 0-4 except 1
```

Break Keyword that ends the loop iteration

```js
for (let i = 0; i < 5; i++) {
  if (i == 3) {
    break;
  }
  console.log(i);
}
// Will print numbers 0-2
```