

JavaScript - 01

Conditional statements

if...else statement

```
const age = 18;

if (age ≥ 18) {
  console.log("You can vote");
} else {
  console.log("Too young to vote");
}
```

Ternary operator

```
const score = 85;
const result = score ≥ 60 ? "Pass" : "Fail";
console.log(result); // Pass
```

Switch statement

```
const day = "Monday";

switch (day) {
  case "Monday":
    console.log("Start of work week");
    break;
  case "Friday":
    console.log("TGIF!");
    break;
  case "Saturday":
  case "Sunday":
    console.log("Weekend!");
    break;
  default:
    console.log("Regular day");
}
```

While and Do

While loop

```
let count = 0;

while (count < 3) {
  console.log(`Count is: ${count}`);
  count++;
}

// Output: Count is: 0, Count is: 1, Count is: 2
```

Do...While loop

```
let number = 5;

do {
  console.log(`Number is: ${number}`);
  number--;
} while (number > 0);

// Output: Number is: 5, 4, 3, 2, 1
```

For Loops & Iteration

For Loop

```
for (let i = 0; i < 3; i++) {
  console.log(`Index: ${i}`);
}

// Output: Index: 0, Index: 1, Index: 2
```

For...In Loop

```
const person = { name: "John", age: 30, city: "NYC" };

for (let key in person) {
  console.log(`${key}: ${person[key]}`);
}

// Output: name: John, age: 30, city: NYCs
```

For...Of Loop

```
const colors = ["red", "green", "blue"];

for (let color of colors) {
  console.log(`Color: ${color}`);
}

// Output: Color: red, Color: green, Color: blue
```

ForEach Method

```
const numbers = [1, 2, 3];

numbers.forEach((num, index) =>{
  console.log(`Number ${num} at index ${index}`);
});

// Output: Number 1 at index 0,
//          Number 2 at index 1,
//          Number 3 at index 2
```

Break & Continue

Break

```
for (let i = 0; i < 5; i++) {
  if (i === 3) break;
  console.log(i); // 0, 1, 2
}
```

Continue

```
for (let i = 0; i < 5; i++) {
  if (i === 2) continue;
  console.log(i); // 0, 1, 3, 4
}
```