



- LOOPS ARE ESSENTIAL FOR EXECUTING A BLOCK OF CODE REPEATEDLY UNTIL A CERTAIN CONDITION IS MET.
- THEY HELP IN REDUCING REDUNDANCY AND MAKING CODE MORE EFFICIENT.
- IN JAVASCRIPT, THERE ARE SEVERAL TYPES OF LOOPS INCLUDING FOR, WHILE, AND DO-WHILE.



• THE FOR LOOP IS COMMONLY USED WHEN THE NUMBER OF ITERATIONS IS KNOWN BEFOREHAND.

SYNTAX:

```
for (initialization; condition; increment/decrement) {
    // code to be executed
}
```

EXAMPLE:

```
for (let i = 0; i < 5; i++) {
    console.log("Iteration:", i);
}</pre>
```



• THE WHILE LOOP IS USED WHEN THE NUMBER OF ITERATIONS IS NOT KNOWN BEFOREHAND.

SYNTAX:

```
while (condition) {
   // code to be executed
}
```

EXAMPLE:

```
let i = 0;
while (i < 5) {
    console.log("Iteration:", i);
    i++;
}</pre>
```