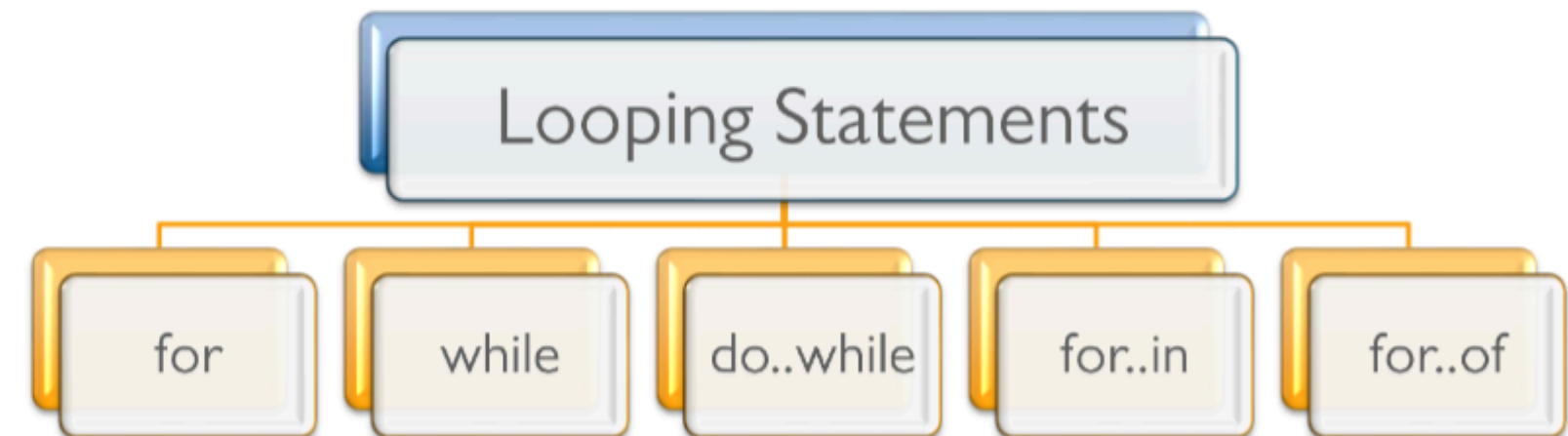


Looping Statements

When you want to execute a statement/block of statements multiple times, you can use looping statements to avoid writing the same statements repeatedly.

JavaScript supports 5 types of looping statements:

- for loop
- while loop
- do..while
- for..in
- for..of



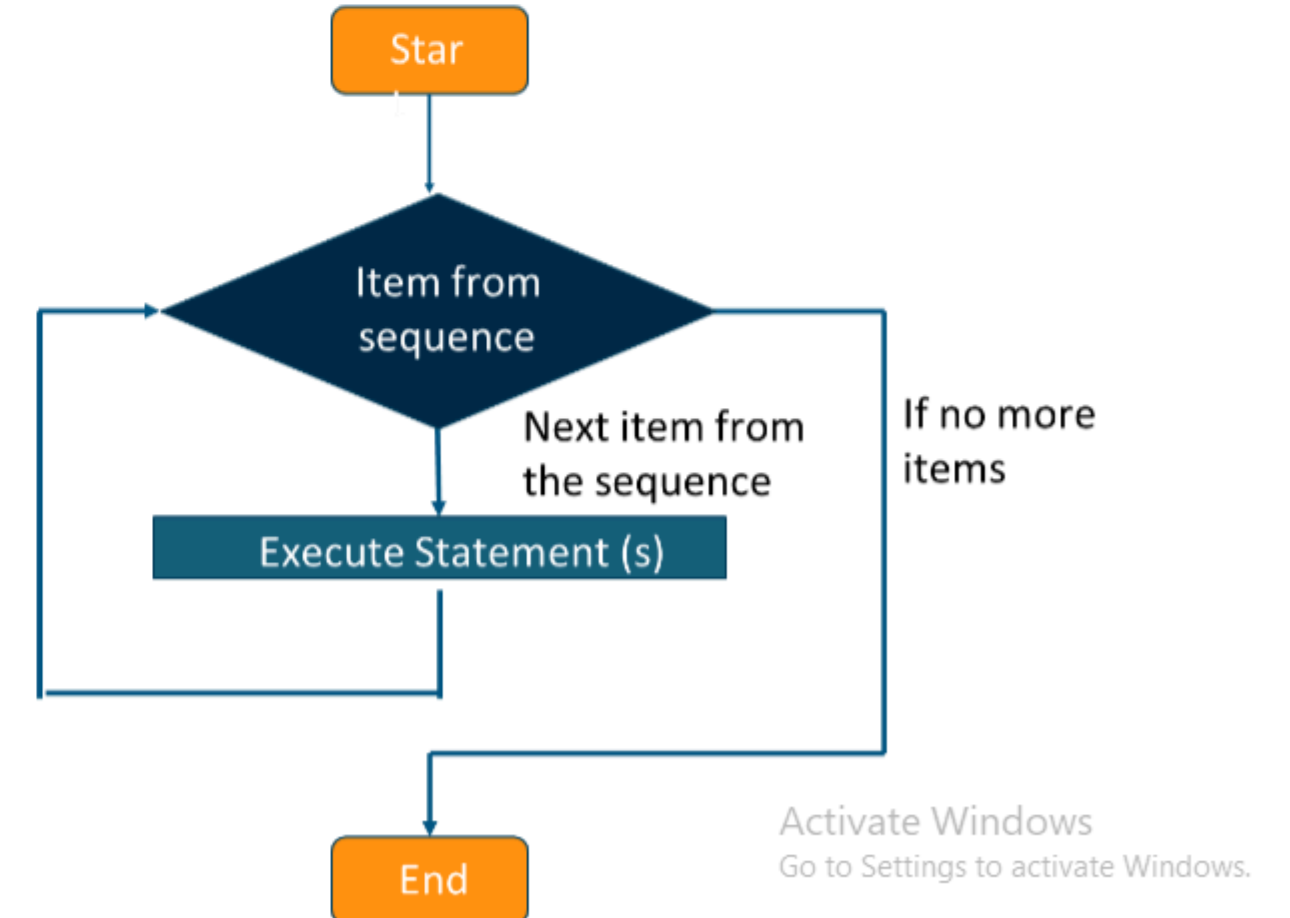
for Loop

- The **for** loop repeatedly executes the code until a given condition is TRUE.
- It tests the condition before executing the loop body.
- This loop is used when you know how many times the loop should get executed at compile time.

Syntax:

```
for(begin; end; step)
{
    Loop body;
    ...
}
```

Data Flow Diagram:



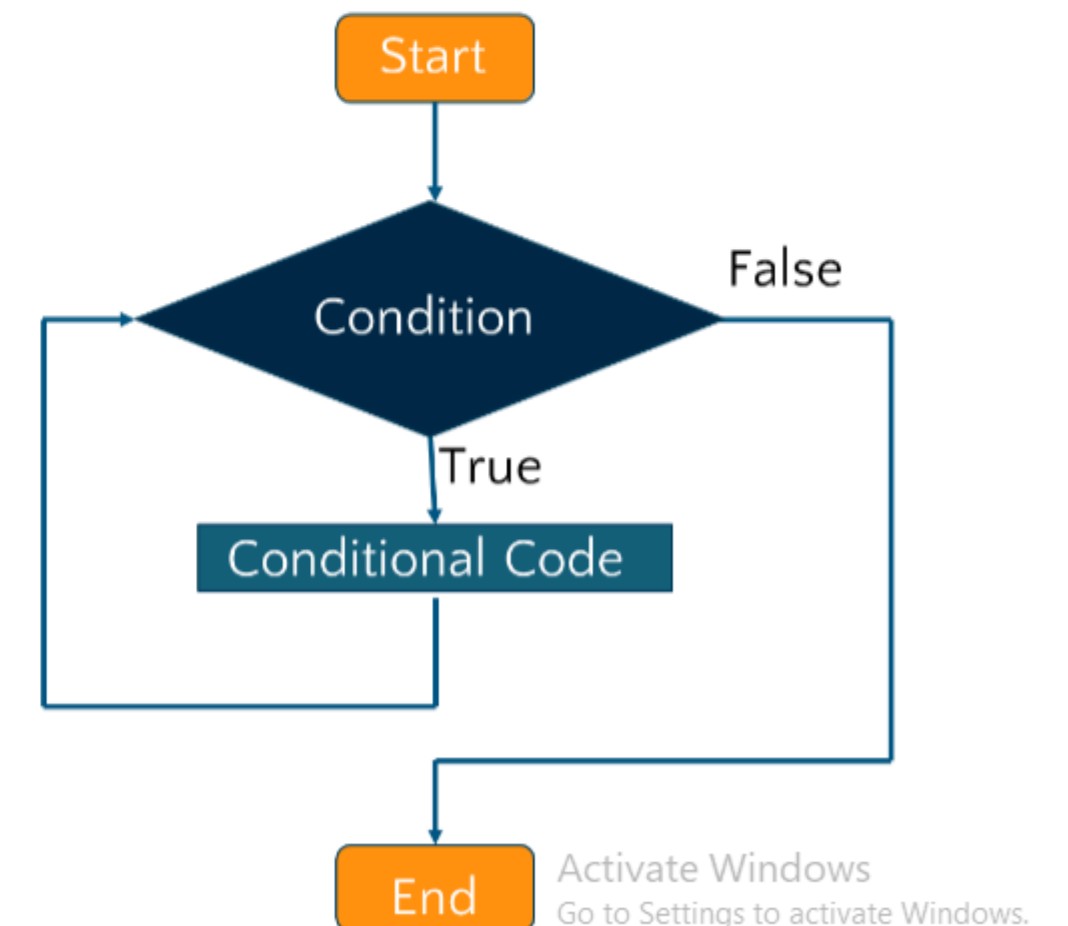
while Loop

- The **while** loop executes the given block of code as long as the given condition is true.
- A **while** loop is normally used in a scenario where you don't know how many times a loop will get executed at runtime.

Syntax:

```
while(condition)
{
    Loop body;
    ...
}
```

Data Flow Diagram:



do..while Loop

- The `do..while` loop always executes the statements once before checking the condition.
- Once after executing the body, it checks the condition and if the condition is true, the code within the loop is executed again.
- When the condition is false, execution stops, and control passes to the next statement.

Syntax:

```
do
{
    statements;
    ...
}while(condition);
```

Data Flow Diagram:

