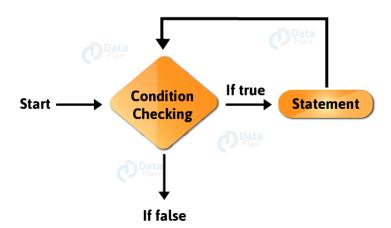
Loops:

While:



A **while** statement in JavaScript executes until our boolean condition evaluates to **true**. This loop is an entry controlled loop.

- If the test condition returns **false**, then control passes to the statement just after the loop.
- If the test condition returns **true**, the loop body is executed and the condition is tested again.

# syntax:

```
while ( boolean condition)
statement
```

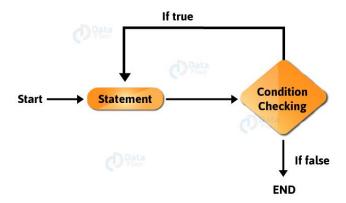
Output:

```
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2. Antronsys Tech
4. Antronsys Tech
5. Antronsys Tech
5. Antronsys Tech
Loop end
```

#### Do..while:



This is an exit controlled loop; the loop body executes at least once, even if the condition is not true. This is because the condition is tested when the loop body ends. If the condition returns **true**, the code inside the loop executes again. If it returns **false**, the JavaScript interpreter exits the loop.

The syntax of a **do...while** statement is as follows:

```
do
{
//code executed at least once
}while (condition);
```

```
| Description |
```

# Output:

```
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1. Hi welcome to HelloWorld

2. Hi welcome to HelloWorld

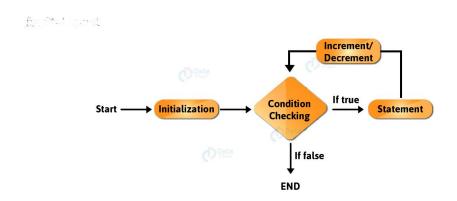
3. Hi welcome to HelloWorld

4. Hi welcome to HelloWorld

5. Hi welcome to HelloWorld

Loop end
```

## For..:



JavaScript **for loops** are similar to Java and C language **for loops**. It's an entry controlled loop. It consists of three parts, separated with a semicolon:

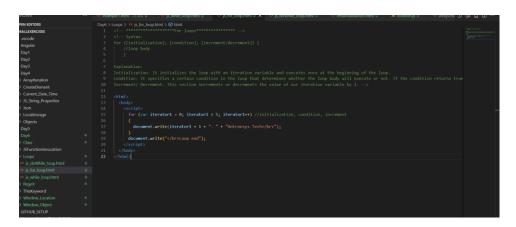
- **Initialization:** It initializes the loop with an iteration variable and executes once at the beginning of the loop.
- **Condition:** It specifies a certain condition in the loop that determines whether the loop body will execute or not. If the condition

returns true, the code inside the **for** loop will execute. If it returns false, the control moves onto the statement after the loop.

• **Increment/ Decrement:** This section increments or decrements the value of our iteration variable by 1.

These three sections are not compulsory, but make sure you remember the semicolons. The syntax of **for statement** looks like this:

```
for ([initialization]; [condition]; [increment/decrement]) {
//loop body
}
```



## Output:

