Black & White Series

Loop

JavaScript for C or Java Programmers

while **Loop**

```
while (<condition>)
    <block>
```

Tests <condition> in the cycle beginning

```
do
    <block>
while (<condition>)
```

Tests <condition> in the cycle ending

Example 1

```
let week = 0
const limit = Math.trunc(Math.random() * 8)
console.log('limit: ' + limit)
while (week < limit) {
  week++
  console.log('weekday: ' + week)
}
```

```
limit: 0
```

```
limit: 2
weekday: 1
weekday: 2
```

Example 2

```javascript
let week = 0
const limit = Math.trunc(Math.random() * 8)
console.log('limit: ' + limit)
do {
  week++
  console.log('weekday: ' + week)
} while (week < limit)
```

```
limit: 0
weekday: 1
```

```
limit: 2
weekday: 1
weekday: 2
```

for Loop

```
for (<initialization>; <condition>; <increment>)
  <block>
```

- **<initialization>**
  - executed before entering
  - usually initializes a control variable
- **<condition>**
  - tested on entry and every complete cycle
- **<increment>**
  - executed every complete cycle
  - usually increments the control variable

Example

```
const limit = Math.trunc(Math.random() * 8)
console.log('limit: ' + limit)
for (let day = 1; day <= limit; day++)
  console.log('weekday: ' + day)
```

```
limit: 0
```

```
limit: 2
weekday: 1
weekday: 2
```

References

- Mozilla MDN - https://developer.mozilla.org

- Eloquent JavaScript - https://eloquentjavascript.net/

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Web2Learn

santanche.github.io/web2learn/