

# Loops

## Instead of writing commands manually

```
console.log(1);
console.log(2);
console.log(3);
console.log(4);
console.log(5);
console.log(6);
```

## Instead of writing commands manually

```
for (let i= 1; i<=6; i++){
    console.log(i);
}
```

## Syntax

```
for (let countingVariable = 0; countingVariable <10; countingVariable+=1){  
    //Code that runs for every step  
}
```

# Syntax

```
let count = 0;
if(count<3){
    console.log(count);
}count += 1;

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    console.log(count);
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    console.log(count);
}count += 1;
```

# Syntax

```
for (let count = 0; count < 3; count++) {  
    console.log(count);  
}
```

## Extra

- Counting variable can be named anything, we usually call it "i" for index
- count++ means add 1 to count, its the same as:
  - count += 1;
  - count = count + 1;

## While loops

```
let x = 0;  
while (x < 10) {  
    console.log(x);  
    x++;  
}
```

## Risk

While loops run until the statement is false, if the statement never becomes false it will run forever.