

JAVASCRIPT CHEAT SHEET

presented by the Student Computing Association

1. VARIABLES

var

Declares a variable globally or locally within a function.

let

Declares a block-scoped variable.

const

Declares a block-scoped constant (read-only) variable.

2. LOOPS

For Loop

This loop will execute 5 times:

```
for (let i = 0; i < 5; i++) {  
  console.log(i);  
}
```

While Loop

This loop will execute 5 times:

```
let i = 0;  
while (i < 5) {  
  console.log(i);  
  i++;  
}
```

3. CONDITIONAL STATEMENTS

If statement

```
if (age >= 18) {  
  console.log("You are eligible to  
vote!");  
} else {  
  console.log("You are not  
eligible to vote yet.");  
}
```

Switch statement

```
let age = 20;  
  
switch (true) {  
  case age >= 18:  
    console.log("You are eligible  
to vote!");  
    break;  
  default:  
    console.log("You are not  
eligible to vote yet.");  
    break;  
}
```

4. STRING METHODS

length

Returns the length of a string.

toUpperCase()

Converts a string to uppercase.

toLowerCase()

Converts a string to lowercase.

charAt(index)

Returns the character at a specified index.

includes("Hello")

Checks if a string contains a specific substring (in this example, "Hello").

split(",")

Splits a string into an array of substrings based on a separator (in this example, a comma).

trim()

Removes whitespace from both ends of a string.

concat(string1, string2)

Joins two or more strings.

5. ARRAY METHODS

length

Returns the number of elements in an array.

push("Joe")

Adds one or more elements to the end of an array.

pop()

Removes the last element from an array.

shift()

Removes the first element from an array.

unshift()

Adds one or more elements to the beginning of an array.

indexOf()

Returns the first index at which a specified element is found.

forEach()

Executes a provided function once for each array element. Example:

```
numbers.forEach((number) => {  
  console.log(number);  
});
```

map()

Creates a new array by performing a function on each array element. Example:

```
const doubledNumbers =  
numbers.map((number) => {  
  return number * 2;  
});
```