Control Flow



```
1  /*
2   - What is control flow?
3   - if/else/if else
4   - Logical operators
5  */
6
7
8
9
10
```



What is control flow?

```
/* generally, our code runs from top to
bottom */

console.log('first!');
console.log('second!);
```



4

```
/* often, we don't want every line of our
code to run in order */

/* in some cases, we may not want a line of
code to run at all! */

/* control flow enables us to change the
order in which our code runs */
```



if statement

```
1  /* the if statement is an example of a JS
2   feature that allows us to affect control
3   flow */
4
5
6
7
```

if statement

```
// if statement starts with the if keyword
// then, two parens around an expression
/* finally, curly brackets surrounding the
lines of code to run; these lines only run
if the expression evaluates to true */
if (true) {
  console.log('in the if');
}
```



```
console.log('can i see you?');

if (false) {
  console.log('sorry, no');
}

if (true) {
  console.log('i\'ll be there!');
}
```



if statement

```
1 let neatNum = 7;
2
3 if (neatNum === 7) {
4   console.log('wow that\'s a seven!');
5 }
6
7 if (neatNum === 8) {
8   console.log('wow that\'s an eight!');
9 }
```



else clause

```
/* the code in an else block will run only if
the expression in the if evaluates to false */
if (false) {
  console.log('in the if');
}
else {
  console.log('in the else');
}
```

else if clause

```
/* the code in an else if clause has its own
condition and only runs if the condition
evaluates to true */
if (false) {
  console.log('in the if');
}

else if (true) {
  console.log('in the else if');
}
```



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```
let name = 'Ada';
if (name === 'Ada') {
   console.log('Hi Countess Lovelace!');
}
else if (name === 'Grace') {
   console.log('Hi Rear Admiral Hopper!');
}
else {
   console.log('Hi friend!');
}
```



else if clause

```
let name = 'Grace';
if (name === 'Ada') {
   console.log('Hi Countess Lovelace!');
}
else if (name === 'Grace') {
   console.log('Hi Rear Admiral Hopper!');
}
else {
   console.log('Hi friend!');
}
```

else if clause

```
let name = 'Ashi';
if (name === 'Ada') {
   console.log('Hi Countess Lovelace!');
}
else if (name === 'Grace') {
   console.log('Hi Rear Admiral Hopper!');
}
else {
   console.log('Hi friend!');
}
```

Logical operators

```
// && is the logical 'and' operator
/* it will return true if placed between two
boolean values and both are true */
if (true && true) {
  console.log('in the first if');
}

if (true && false) {
  console.log('in the second if');
}
```

Logical operators

```
// || is the logical 'or' operator
/* it will return true if placed between two
boolean values and either is true */
if (false || true) {
  console.log('in the first if');
}

if (false || false) {
  console.log('in the second if');
}
```



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