



"This" keyword refers to an object that is executing the current piece of code.

01. _this_ in JavaScript.mp4



try & catch

The try statement allows you to define a block of code to be tested for errors while it is being executed.

The catch statement allows you to define a block of code to be executed, if an error occurs in the try block.

```
try {
    console.log(a);
} catch {
    console.log("variable a doesn't
}
```





Arrow Functions

```
const func = (arg1, arg2 ..) => { function definition }
```

```
const sum = (a, b) => {
  console.log(a+b);
}
```





Arrow Functions

Implicit return

```
const func = (arg1, arg2 ..) => { value }
```

```
const mul = (a, b) => (
    a * b
);
```

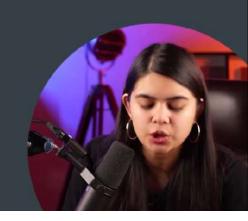


APNA COLLEGE

Set Timeout

```
setTimeout(function, timeout)
```

```
console.log("hi there!");
setTimeout( ()=> {
   console.log("Apna College");
}, 4000);
console.log("welcome to");
```





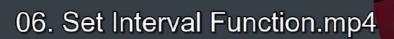
Set Interval

setInterval(function, timeout)

```
setInterval( () => {
   console.log("Apna College");
}, 2000);
```

clearInterval(id)

JS



Qs1. Write an arrow function named arrayAverage that accepts an array of numbers and returns the average of those numbers.

Qs2. Write an arrow function named isEven() that takes a single number as argument and returns if it is even or not.

Qs3. What is the output of the following code:

Qs4. What is the output of the following code:

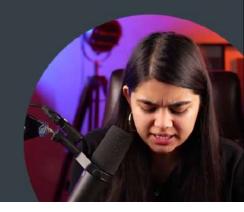
```
lef length = 4;
function caliback() (
    console.log(this.length);
```





Array Methods

- forEach
- map
- filter
- some
- every
- reduce



01. Array Methods.mp4



forEach

arr.forEach(some function definition or name);







let newArr = arr.map(some function definition or name);

```
let num = [1, 2, 3, 4];
let double = num.map(function(el) {
    return el*2;
});
```







Filter

let newArr = arr.filter(some function definition or name);

```
let nums = [2, 4, 1, 5, 6, 2, 7, 8, 9];
let even = nums.filter( (num) => (num % 2 == 0) );
```

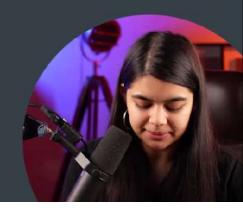




Returns true if every element of array gives true for some function. Else returns false.

arr.every(some function definition or name);

```
[1, 2, 3, 4].every( (el) => (el%2 == 0));
false
[2, 4].every( (el) => (el%2 == 0));
true
```



C1,2,34,5,6]

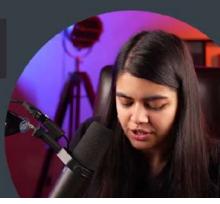


Reduce

Reduces the array to a single value

arr.reduce(reducer function with 2 variables for (accumulator, element));

single





Default Parameters

Giving a default value to the arguments

```
function func (a, b = 2) {
  //do something
}
```

```
function sum(a, b = 3) {
  return a + b;
}
sum(2); //5
```





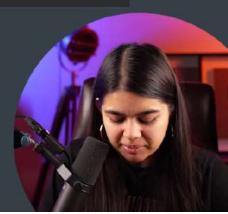
Spread

Expands an iterable into multiple values

```
function func (...arr) {
  //do something
}
```

```
> console.log(..."apnacollege");
a p n a c o l l e g e
```

```
> let arr = [1, 2, 3, 4, 5];
< undefined
> Math.min(...arr);
< 1
> console.log(...arr);
1 2 3 4 5
```





Spread

with Array Literals

```
> let arr = [1, 2, 3, 4, 5];
< undefined
> let newArr = [...arr];
< undefined
> newArr
< > (5) [1, 2, 3, 4, 5]
```

```
> let chars = [..."hello"];
< undefined
> chars
< ▶ (5) ['h', 'e', 'l', 'l', 'o']</pre>
```





Spread with Object Literals

```
let data = {
  email: "ironman@gmail.com",
  password: "abcd",
};
let dataCopy = { ...data, id: 123 };
```

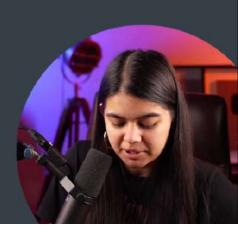
10. Spread (Object Literals).mp4





Allows a function to take an indefinite number of arguments and bundle them in an array

```
function sum(...args) {
  return args.reduce((add, el) => add + el);
}
```



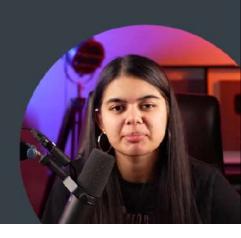
11. Rest.mp4



Destructuring

Storing values of array into multiple variables

```
let names = ["tony", "bruce", "steve", "peter"];
let [winner, runnerup] = names;
console.log(winner, runnerup); //"tony" "bruce"
```



12. Destructuring.mp4



Destructuring

Objects

```
const student = {
  name: "karan",
  class: 9,
  age: 14,
  subjects: ["hindi", "english", "math", "science", "social studies"],
  username: "karan123",
  password: 1234,
};

const { username: user, password: pass } = student;

console.log(user); //"karan123"
```

