



# Frontend Interview Question

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# React Js Interview Question

- What is React js
- What is difference between virtual dom and shallow dom , dom in React js
- What is controlled and uncontrolled component in React js
- What is hooks in React js
- What is jsx, babel, webpack
- What is Redux
- What is reducer , action, store in Redux
- What is middleware in Redux
- Explain data flow in Redux
- What is Redux-Thunk
- What is Redux-Saga, Difference between Redux-thunk and Redux-saga
- Difference between class component and function component
- How can we implement componentWillUnmount in function component
- useEffect,useState,useMemo.useCallback hooks in Details
- Explain lifecycle method in React js
- What is difference between export default and export in React js
- What is portal in React js
- What is reconciliation in React js



- What is useRef in React js
- What is server side render in React js
- What is useStrict in React js
- What is fragment in React js
- What is react router in React js
- What is node module in React js
- What is the default localhost server port in react js.  
how can we change the local server port
- What is high order component in React js
- What is pure component in React js
- What is difference state and props in React js
- How to optimize React js app
- What is difference between React js and Angular js
- What is prop drilling in React js how to overcome it
- What is context api in React js
- What is super, constructor , render function in React js



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## HTML interview question

- What is <!Doctype html> in Html5
- What is difference between div and span in Html
- What is semantic tags and non semantic tags in Html
- What is difference between html and html5
- What is Iframe tag in Html5
- What are the formatting tags in html
- What is difference <b> and <Strong> in html
- What is view port attribute in html
- What is attribute in html
- What is block level element and inline element in html
- What is difference between Html and Html5



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# Css Interview Question

- What is difference between css and css3
- What are the selector in css
- What is media query in css
- What is different position in css
- What is bom in css
- What is difference between PX,unit,em,rem in css
- What is flex box in css
- What is pseudo selector in css
- How to make website responsive
- What are breakpoint for viewport responsive device
- Why we use box-sizing in css



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# Javascript interview Question

- What is EcmaScript in Javascript
- What is difference between let ,const and var
- What is spread operator, Rest operator , default parameter
- What is deep copy and shallow copy in Javascript
- What is promise , callback function , async await in Javascript
- What is difference between promise and callback in Javascript
- What is event bubbling and event capturing in Javascript
- What is higher order function in Javascript
- Explain different-2 types of function in Javascript
- What is arrow function in Javascript
- Why we use call, apply bind method in Javascript
- How many way to create object in Javascript
- What is prototype inheritance in Javascript
- What is typescript
- What are the array method , string method
- What is difference between java and javascript
- What is throttling and debouncing in js



- What is Null and undefined in javascript
- What are the falsy values in javascript
- What is execution context, event loop ,stack, call queue,microtask queue in Javascript
- What is setTimeout and setInterval in Javascript
- What is object.seal and object.freeze in Javascript
- What is difference between map and set in Javascript
- What is Weakmap and Weakset in Javascript
- What is sessionStorage, localStorage , cookie,
- Write a program to sort an array
- What is use of json.stringify and json.parse() method in Javascript
- What are is map, filter , reducer in javascript
- What is generator function in Javascript
- How to stop event propagation in Javascript
- What is closure in Javascript
- What is housing in Javascript
- What is dead zone in Javascript
- What is function currying in Javascript
- What is mutation observer in Javascript
- What is memorization in javascript



- **Write a program to find element occurrence in array**

```
const arr = [1,1,2,3,1,4]
const count = {};

for (const element of arr) {
  if (count[element]) {
    count[element] += 1;
  } else {
    count[element] = 1;
  }
}
```

console.log(count); // 👉 {1: 3, 2: 1, 3: 2}

- **Write a program to remove duplicate item from array**

```
const arr = [1,2,3,4,1,2];
const b=[];
for(let i=0;i<arr.length;i++){
```



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```
if(b.indexOf(arr[i]) === -1){  
  b.push(arr[i])  
}  
}  
console.log("removed array value",b)
```

```
const arr = [1,2,3,4,1,2];  
const b=[];  
  
arr.filter((dup)=>{  
  if(b.indexOf(arr[dup]) === -1){  
    b.push(arr[dup])  
  }  
})  
console.log("removed array value",b)
```



- **What will be output of that code**

```
Const firstname = fun();  
Let name = 'vivek'  
Function fun(){  
Return `my is ${name} malviya`  
}  
console.log(firstname);
```

- **. Write a program for following output**

- **console.log("output with normal function",mul(2)(4)(6))**

```
function mul(a) {  
  return function (b) {  
    return function (c) {  
      return a * b * c;  
    };  
  };  
}  
console.log("output with normal function", mul(2)(4)(6));
```



- . Write a program for following output using arrow function

```
const call = (a) => {  
  return (b) => {  
    return (c) => {  
      return a * b * c;  
    };  
  };  
};  
console.log("output with arrow function", mul(2)(4)(6));
```

- Write a program return resolve if value is less than 5 using Promise

```
function fun(a){  
  let myPromise = new Promise((myResolve,  
myReject)=> {  
    let x = 0;  
  
    // The producing code (this may take some time)  
  
    if (a < 7) {
```



```
    myResolve(`number is given ${a}`);  
  } else {  
    myReject("Error");  
  }  
});
```

```
myPromise.then((result)=>{  
  console.log(result)  
})  
}  
fun(5);
```

- What will be output for this program ?

```
for (let i = 0; i < 5; i++) {  
  setTimeout(function () {  
    console.log(i);  
  }, i * 1000);  
}
```

And



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```
for (var i = 0; i < 5; i++) {  
  setTimeout(function () {  
    console.log(i);  
  }, i * 1000);  
}
```

**Write a program to multiply two number without using multiply Sign in Javascript**

```
function multiplay(a, b) {  
  let answer = a;  
  for (let i = 0; i < b - 1; i++) {  
    answer += a;  
  }  
  
  return answer;  
}  
console.log(multiplay(5, 3));
```



- **Write a program sorting in javascript**

```
const arr = [3,2,5,4,1,0]
for (let i = 0; i < arr.length; i++) {
  for (let j = i+1; j < arr.length; j++) {
    if(arr[i] < arr[j]) {
      let temp = arr[i];
      arr[i] = arr[j];
      arr[j] = temp;
    }
  }
}

console.log("Elements of array sorted in
ascending order:");
for (let i = 0; i < arr.length; i++) {
  console.log("Elements of array sorted
in ascending order", arr[i]);
}
```



- What will be output ?

```
var num = 4;
function outer() {
  var num = 2;
  function inner() {
    num++;
    var num = 3;
    console.log("num", num);
  }
  inner();
}
outer();

function sayHi() {
  return (() => 0)();
}
```

- What's the console output of?

```
const a = {};
const b = { key: 'b' };
const c = { key: 'c' };
a[b] = 123;
a[c] = 456;
```



```
console.log(a[c]);
```

Answer : -

Object keys are automatically converted into strings.

We are trying to set an **object** as a **key** to object a, with the value of 123.

However, when we stringify an object, it becomes "[object Object]".

So what we are saying here, is that `a["[object Object]"] = 123`. Then,

we can try to do the same again.

c is another object that we are implicitly stringifying.

So then, `a["[object Object]"] = 456`. Then, we log `a[b]`,

which is actually `a["[object Object]"]`.

We just set that to 456, so it returns 456. \*/





- Write a program to make polyfill for map method in javascript

```
Array.prototype.mymap = function (cb) {  
  let temp = [];  
  for (let i = 0; i < this.length; i++) {  
    temp.push(cb(this[i]));  
  }  
  return temp;  
};
```

```
const arr = [2, 3, 4, 5];  
  
const result = arr.mymap((num) => {  
  return num * 5;  
});  
console.log("result", result);
```

- Write a program to make polyfill for filter method in javascript

```
Array.prototype.myFilter = function (cb) {
```



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```

let temp = [];
for (let i = 0; i < this.length; i++) {
  if (cb(this[i], i, this)) temp.push(cb(this[i]));
}
return temp;
};

const arr = [2, 3, 4, 5];
console.log("arr", arr);

const data = arr.filter((num) => {
  return num > 2;
});
console.log("resultnumber", data);

```

- Write a program to make polyfill for reduce method in javascript

```

Array.prototype.myReducer = function (cb, initialValue) {
  var accumulator = initialValue;
  for (i = 0; i < this.length; i++) {
    accumulator = accumulator ? cb(this[i], i, this) : this[i];
  }
  return accumulator;
};

const arr = [2, 3, 4, 5];
const sumOfArray = arr.myReducer((accu, curr, index, arr) => {
  return (accu += curr);
}, 0);
console.log("polyfil", sumOfArray);

```

