

Q What is array?
→ Array is the collection of data items in one name, variable.

Q Constructor function?
→ In javascript, a constructor function is used to create objects, to create an object constructor function we use the new keyword.

For Example, constructor function

function Person () {

 this.name = "John",

 this.age = 20

}

const person = new Person();

Q Object Prototypes.
→ Prototypes are mainly the mechanism by which javascript objects inherits features from one another, Each and every javascript function will have a prototype property which is of the object. In this, a link is made between the object instance and its prototype (the property which is derived from the prototype property on the constructor).

Example: function Person (first, last, age, gender) {

 this.name = {

 "first": first,

 "last": last

 }

 this.age = age

 this.gender = gender

}

Q What is DCTYPE?

A document type declaration or DCTYPE is an instruction that associate a particular XML or SEM document with a document type definition in the serialized form of the document.

Q What is structural element?

Body: The body element contains all of the content of the document
Main: most webpages contain a lot of information that is repeated across the site.

This includes branding navigation advertisement and branding, copyright information.

Sectioning content:

Several of these structural elements fall into this category, i.e. Article & section.

Aside, nav

Header, footer.

Q What is the use of Article tag?

A. The HTML <article> tag defines an independent self contained content in a document, page, application or a site, the article tag content makes sense on its own. It is independent and complete from other content shown on the page.

Q How can we produce horizontal line

A. By using <hr> tag

Q Div tag

A. Div tags defines a division or a section in an HTML document. It is used to as container for HTML content element.

Q JavaScript Static or Dynamic?
→ JavaScript is called as a dynamic language, because it doesn't just have a few dynamic aspects, there is almost everything is dynamic.

Q NaN Property? :
→ NaN property represents "Not a Number" value. It indicates a value which is not a legal number.

Example: `isNaN("Hello") = // true false`.

Q Is JavaScript case sensitive?
→ JavaScript is case sensitive. This means that language keywords, variables, function names, and any other identifiers must always be typed with consistent capitalization of letters.

Q Explain Passed by value & Passed by reference.
→ In JavaScript, primitive data types are passed by value and non-primitive data types are passed by reference.

Ex: var x=2.
Here variable is x and value is 2 in the background the '=' (assign operator) allocate some space in the memory, stores the value 2 and return the location of the allocated memory space.

Q What is immediately invoked function in JS?
→ An immediately invoked function also known as IIFE is a function that runs as soon as it is defined.

Syntax:-
(function () {
// Do something
}) ();

Q

What are the types of scope?

- 1- Global scope.
 - 2- Functional scope.
 - 3- Block scope.
1. Global scope: A variable that's not in any function or block is in the global scope and can be accessed from anywhere in the program.

2. Local scope or functional scope.

A variable declared inside a function is inside the local scope. They can only be accessed within that function, that means they can't be accessed from the outside code.

Q for loop in javascript?

→ For of loops 'through' the value of an iterable object.

Q for in loop

→ for in loops 'through' the properties of an object.

Q What is 'objects' in javascript?

→ Object is a collection of properties and property associated between key and values.

Q What is factory function?

→ When any function returns an object, we can call that 'factory' function.

Q What is Hoisting:-

→ In JavaScript, hoisting is the default behaviour of moving all the declarations at the top of the scope before code execution.

Q What is closure function?

→ Closure is the inner function that is having the access of outer function's variable.

Q What is an anonymous function?

→ An anonymous function is a function that is not stored in a program file, but can be stored in variables. ② can be returned in a function. ③ can be passed in a function.

Q6

How can we group the heading element?
→ The <hgroup> tag in HTML stands for heading group and it is used to group the heading element.

Q

span tag?

The HTML element is a generic inline container for phrasing content. It can be used to group the element for styling purpose.

Q What are commonly used list tags.

JavaScript:

Q1

What is javascript:-
→ JavaScript is a programming language which makes the webpage dynamic. basically it is used for giving actions to the web page. It is interpreted programming language with object oriented capabilities.

Q2

Advantages of JavaScript:-
1] It is easy language.
2] Client side validation is possible
3] quick browser verification.

Q3

Disadvantages:-
creation.

- 1] Due to client side verification loss secure access.
- 2] No hardware access.

Q. callback in JS?

→ A callback is a function that will be executed after another function gets executed.

In JavaScript, functions are treated as first class citizens, they can be used as an argument of another function and can be used as a property of an object.

= Functions that are used to act as an argument to another function are called: callback fn.

Eg: function divideByHalf(sum) {
 console.log(Math.floor(sum/2));
}
function multiplyBy2(sum) {
 console.log(sum*2);
}
function operations(n1, n2, operation) {
 var sum = n1 + n2;
 operation(sum);
}
operations(5, 3, divideByHalf);
// 3


```
let person1 = new Person('Ali', 'Khan',  
22, 'male')
```

```
Person 1
```

```
// Person 1
```

```
{ name:
```

```
  first: "Ali",
```

```
  last: "Khan",
```

```
  gender: 'Male',
```

```
  age: 22.
```

```
}
```

Q What is currying in JS?

→ Currying is the technique of evaluating function with multiple arguments, into sequence of function with single argument.

In other words, when a function instead of taking all the arguments at one time, takes the first one and return new function that takes the second one and returns the new function which takes the third.

Q

What are arrow function.

- Allow functions are introduced in the ES6 version of JS.
- They provide us with a new and shorter syntax of declaration function.
- Allow function can be used as a function expression.
- It has shorter syntax than function expression.

Q

What are rest parameters and spread operator.

- It provides an improved way of handling parameters of a function.
- ② Using the rest parameter syntax, we can create function that can take variable number of arguments.
- ③ Any number of arguments will be converted into array. using the rest parameter.
- ④ It also helps in extracting all or some part of argument.