Javascript Questions :-

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1. What are the data types in javascript?

1. Primitive Types

number, string, boolean, null, undefined, symbol

2. Reference Types

Object, array

2. What is the difference between == & ===

== compares equality only with value

=== compares equality with value and type also

3. What is the difference between null and undefined?

null -- variable is defined but absence of value.

undefined -- variable is not yet defined or so far no value is assigned to the variable

4. null==undefined

true

5. null===undefined

false -- because typeof null is object and typeof undefined in undefined

6. what is the typeof function

function

7. What is the typeof array?

object

8. what is difference between slice and splice?

slice

-- It returns a new array from existing array from specified starting position to ending position

-- It will not modify the original array.

splice

-- It removes or adds elements from/to an array from specified position and specified number of elements

-- It modifies the original array.

9. What is the difference between map, filter & reduce?

map -- It returns a new array which contains every element from the original array by performing some action

filter -- It returns a new array which contains the elements satisfies the given predicate (condition)

reduce -- It returns a single value by performing some calculation.

10. What is the difference between for loop and forEach ?

for :-It iterates over a collection and it can be camcelled in middle by using break;

forEach :- This is also used to iterate over a collection but it can not be cancelled in middle.

11. What is the difference between shallow copy and deep copy?

Shallow copy:- Only one instance will be available but its reference can be assigned to multiple reference variables

Deep Copy:- We will have different memory locations for different instances

12. What is a closure in javascript?

--> It is a function which returns an inside function

--> Inside function will have accessibility to the variables of outside function

--> Inside function will maintain the state between successive function calls

--> These are used to create a standalone isolated entities.

13. Wat is NaN?

NaN --> Not a Number -- is returned when you perform arithmetic operation on non numeric values.

14. What is type of NaN?

number

15. Is javascript is synchrounous or asynchronous?

asynchronous

16. Is javascript is single threaded or multi threaded?

Single threaded

17. What is arrow function and advantages of arrow function?

--> It is shortest syntax for normal functions

--> It is always points to its parent scope because of that we can avoid using this object in arrow functions

18. What is prototye in javascript?

--> Prototype supports the concept of inheritance.

--> Javascript implements inheritance with the help of prototype only.

--> Classical inheritance can not be supported by javascript.

19. What are different ways of object creation in javascript?

--> 1. Using object literal -- used to create a singleton object

--> 2. Using constructor -- we can create multiple objects using constructor

--> 3. Object.create() -- while creating an object we can extend an existing object

20. What is IIFE?

--> Immediately invokable function expression.

21. How can you perform deep copy of an object?

--> JSON.parse(JSON.stringfy());

22. What is callback function in javascript?

--> Passing a function as an argument to another function

function fun1(fun)

{

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fun();

}

function fun2()

{

}

fun1(fun2);

23. What is a Promise in Javascript?

--> The promise in object represents the eventual completion or failure of an scynchronius operations and returns its resulting value.

--> It returns only one value.

--> Promises will execute as an when we define

--> Promises can not be cancelled in middle

States of Promise

--> pending

--> fulfilled

--> reject

let promise = new Promise((resolve, reject)=>{

resolve("Resolved");

reject("Rejected");

});

--> promise.then(res=>console.log(res)).catch(reason=>console.log(reason)).finally(()=>console.log("Comple"));

24. What is the output of the following code

let empObj={

firstName :'Sathesh',

lastName :'Kumar',

getFullName :()=>{

return this.firstName+" "+this.lastName";

},

getFullName1 : function(){

return this.firstName+" "+this.lastName";

}

};

console.log(empObj.getFullName()); //undefined undefined

console.log(empObj.getFullName1()); //Sathesh Kumar

25. What is the output of the following code

console.log(1);

setTimeout(() => {

console.log(2);

}, 1000);

console.log(3);

setTimeout(() => {

console.log(4);

}, 0);

console.log(5);

// 1, 3, 5, 4, 2

26. What is the out put of the following code.

for (var i = 1; i <= 5; i++) {

setTimeout(() => {

console.log(i);

}, 1000 \* i);

}

//6,6,6,6,6

27. What is the output of the following code

let empObj = {

firstName: 'Sathesh'

};

let obj1 = empObj;

obj1.firstName = "Anil";

console.log(obj1.firstName); //Anil

console.log(empObj.firstName); //Anil

28. What is the output of following

let str = "SATHESH";

str[1] = 'Z';

console.log(str); //SATHESH because strings are immutable

str = "Kumar";

console.log(str); //Kumar because we are assigning new memory location

29. let a=[1,2,[3,4,[5,6[7,8]]]]; //[1,2,3,4,5,6,7,8];

var result = [];

var res = flattenArray(a);

console.log(res);

function flattenArray(array) {

for (let i = 0; i < array.length; i++) {

if (Array.isArray(array[i]))

flattenArray(array[i]);

else

result.push(array[i]);

}

return result;

}

30. Reverse of a string

let str = "SATHESH";

let rst = "";

for (let i = str.length - 1; i >= 0; i--) {

rst = rst + str[i];

}

console.log(rst);

31. let a = [1, 2, 1, 2, 1, 2, 3, 4, 5, 6];

// let set = new Set(a);

// console.log(set);

let res = a.filter((ele, index) => {

if (a.indexOf(ele) == index)

return ele;

});

console.log(res);

32. What is spread operator?

--> (...) It gives individual elements from a given array

33. What is rest parameter

--> (...) It gives an array from given individual elements.