

# 1.What is javascript.

JavaScript is the world's most popular programming language.

JavaScript is the programming language of the Web.

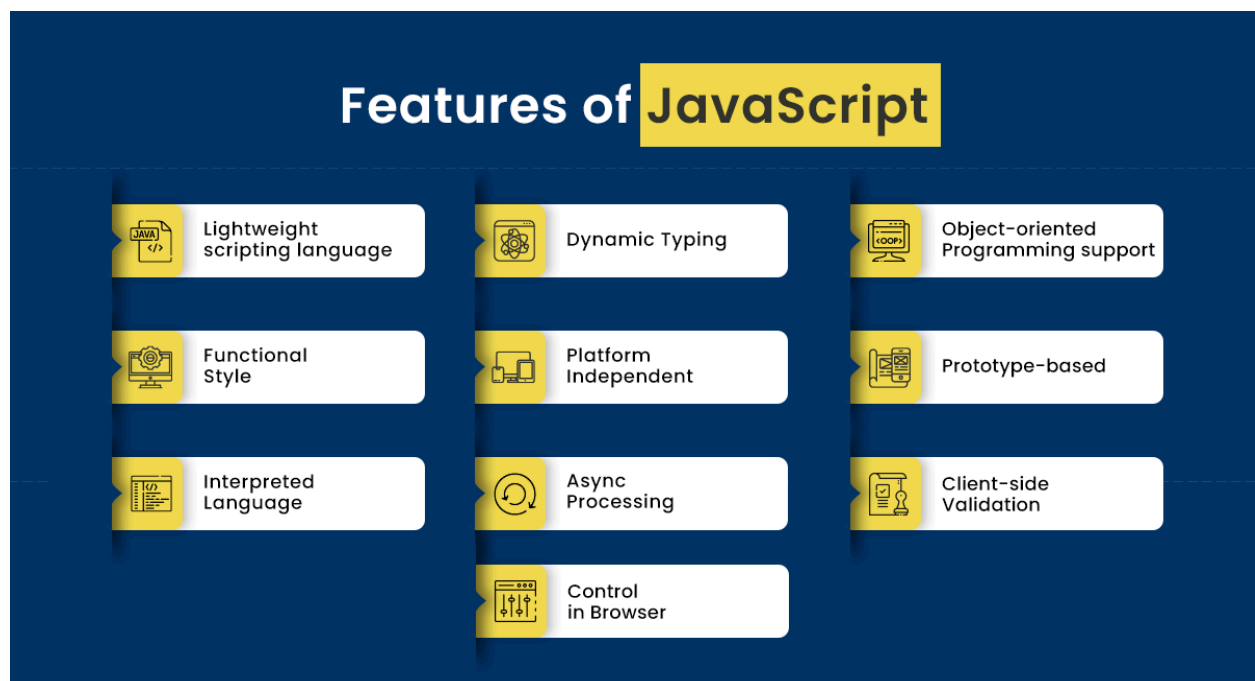
JavaScript is easy to learn.

## 2.Intro to JavaScript.

Brendan Eich first developed [JavaScript](#), a computer language, in about ten days in May 1995

He is most popular scripting programming language for all web developers.

## 3. Features of javascript.



## 4.Why learn javascript?

### 1. It Works in The Browser

For most of the language, you need to do some kind of environment setup, download the compiler or some setup in the code editor. Also, you need to learn how to use them or not. This

is not the case with JavaScript. It is the default language of the internet. You can run and test your code in the browser without creating a special development environment or any kind of setup in your text editor.

## 2. Easy to Learn

It has been seen that a lot of developers don't know the basics of JavaScript even after some previous experience in coding. JavaScript is comparatively easy to learn than other programming languages. It's beginner-friendly and anyone can start learning it without any previous experience in coding

## 3. Versatile Programming Language

We have discussed that initially this language was only used for web client but now JavaScript has a wide range of usage.

- **Web applications (frontend and backend):** JavaScript is very popular for building entire web applications. Once you've mastered this language, you can extend your skills to learn some frameworks and libraries such as **React.js**, **Angular.js**, or **Vue.js**. These libraries and frameworks help you to build beautiful web interfaces.

Also, you don't need to spend time learning a new language for the backend part of your application. With the help of **Node.js**, **Nest.js**, and **Express**, you can use the same language for building the server-side part of your application. *Isn't it cool to become a full-stack developer by learning just a single language?*

- **Mobile Application:** In the very early days of smartphone app development you needed to learn Objective-C for iOS and [Java](#) for Android. But in the case of JavaScript, both iOS and Android applications can be developed by using React Native. You can also use **Flutter**, **ionic** or a different one

Companies like Apple and Google have adopted this language into

their mobile development tool kits to extend their development base.

Also, **PhoneGap** which is a mobile application development framework allows you to create native-like mobile functionality through JavaScript API calls.

- **Desktop Applications:** You can build the desktop application with the help of **ElectronJS**.

- **Big Data & Cloud Development:** NoSQL databases such as MongoDB and others are using **JSON** (JavaScript object notation) on the modern web for data interchange. JSON document has become the major standard to store the records in the database. JSON works well with many programming languages but it is best to fit with JavaScript to connect the application with the big data.

Node.js is also the best fit for the cloud application. It is one of the top four languages supported by major cloud platforms such as Google, Amazon, and Microsoft Azure. Development with Node.js is growing faster and now it has 35,000 downloads with more than 88,000 modules.

- **Blockchain Technology:** You can also use JavaScript for the backend solution of blockchain technology and work with Ethereum smart contracts. You can create smart contracts with Solidity (another version

of JavaScript with limited functionality) which is a special programming language developed for this.

- **Automation:** Even if you don't want to be a developer, you can use this language to automate your day-to-day workflow. You can create some simple programs to avoid repetitive tasks such as updating a few things at several places or following people on Instagram. JavaScript is a very good language to create visual effects and this is the reason it is also best suitable for Game development (Unity)
- It can be used to power up smart TV or you can create music with it.
- IoT (Raspberry Pi)
- Machine learning (TensorflowJS)
- Artificial intelligence.

## 5. Es5 & Es6 concept Differences.

ES5	ES6
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ECMA script is a trademarked scripting language specification defined by Ecma International. The fifth edition of the same is known as ES5	ECMA script is a trademarked scripting language specification defined by Ecma International. The sixth edition of the same is known as ES6
It was introduced in 2009.	It was introduced in 2015.
It supports primitive data types that are string, number, boolean, null, and undefined.	In ES6, there are some additions to JavaScript data types. It introduced a new primitive data type 'symbol' for supporting unique values.
There is only one way to define the variables by using the var keyword.	There are two new ways to define variables that are let and const.
It has a lower performance as compared to ES6.	It has a higher performance than ES5.
Object manipulation is time-consuming in ES5.	Object manipulation is less time-consuming in ES6.
In ES5, both function and return keywords are used to define a function.	An arrow function is a new feature introduced in ES6 by which we don't require the function keyword to define the function.
It provides a larger range of community support than that of ES6	It provides a smaller range of community support than ES5.

## 6.How Many Output show Method in Javascript ? which?

4 types method  
 console.log()  
 document.write()  
 alert()

`document.getElementById("anyid").innerHTML = " any message "`

## 7. What is `console.log()`?

Writing into the browser console, using `console.log()`.

## 8. What is `document.write()`?

Writing into the HTML output using `document.write()`.

## 9. What is `alert`?

Writing into an alert box, using `window.alert()`.

## 10. What is `innerHTML`?

Writing into an HTML element, using `innerHTML`.

## 11. What is variable?

Variables are Containers for Storing Data

JavaScript Variables can be declared in 4 ways:

- Automatically
- Using `var`
- Using `let`
- Using `const`

## 12. What is Data types?

Data types in JavaScript define the data type that a variable can store. JavaScript includes primitive and non-primitive data types.

The primitive data types in JavaScript include string, number, boolean, undefined, null, and symbol. The non-primitive data type includes the object.

## 13. What is Operator?

Javascript operators are used to perform different types of mathematical and logical computations.

## 14. Types in Operator in javascript?

Arithmetic Operators

Assignment Operators

Relational Operator / Comparison Operator

Logical Operator

String Operator

## 15. What is Arithmetic Operators?

Arithmetic operators perform arithmetic on numbers.

Symbol of arithmetic operator

+      -      \*      /      %

## 16. What is Assignment Operators?

Assignment operators assign values to JavaScript variables.

Symbol of assignment operator

`+=    -=    *=    /=    %=`

## 17. What is Relational Operator / Comparison Operator?

JavaScript Relational Operators are used to compare their operands and determine the relationship between them. They return a Boolean value (true or false) based on the comparison result.

Symbol of Relational operator

`>    <    >=    <=    ==    !=    ===    !==`

## 18. Logical Operator?

Logical operators are used to determine the logic between variables or values.

Symbol of Logical operator

`&&    ||`

## 19. What is String Operator?

These operators help us to join one string to another string.

Symbol of string operator

`+`



**20. What is increment operator?**

Plus plus

**21. What is decrement operator?**

Minus minus

**22.  $a=10, b="10"$   $a + b$  what ans this expression ?**

Ans = 1010

**23.  $a='5'$   $b='5'$   $a+b$  what ans this expression ?**

Ans = 55

**24.  $x="hello"$   $y=55$   $x + y$  what ans this expression ?**

Ans = hello55

**25.  $a=10$  ,  $b=3$   $a\%b$  what ans this expression ?**

Ans = 1

**26.  $p=10$  ,  $q=6$   $p\%q$  What ans this expression?**

Ans = 4

**27.  $p=10$  ,  $q=5$   $p/q$  What ans this expression?**

Ans = 2

**28.  $(10/2) + (5 * 3) / 2$  What ans this expression?**

Ans = 12.5

**29.  $x=10$  ,  $y=8$ ,  $z = x$  print x value what ans ?**

X = 10

Y = 8

Z = x (x value = 10)

Z value is 10

Ans = 10

**30.  $a=10$  ,  $b = 5$   $a+=b$  What ans this expression?**

Ans = 15

**31.  $a=10$  ,  $b = 5$   $a = a + b$  What ans this expression?**

a = a + b

10 + 5 // ans is 15 this value store a variable final a variable value change

a=15

Ans = 15

**32.  $a=10$   $++a$  What ans this expression?**

Ans=11

**33.  $a=10$   $--a$  What ans this expression?**

Ans = 9

### 34. What is Control Statement in javascript.

JavaScript **control statement** is used to control the execution of a program based on a specific condition.

### 34. What is condition in javascript?

These statements are used for decision-making, a decision is made by the conditional statement based on an expression that is passed. Either YES or NO.

### 35. How Many types of control statement in javascript?

6 types

### 35. Name of control statement in javascript?

- If statement
- Else statement
- Nest if else statement
- Ladder if else statement
- Switch case
- Turnary operator

### 36. What is if statement?

Use the **if** statement to specify a block of JavaScript code to be executed if a condition is true.

### 37. syntax is if statement?

```
if (condition) {  
    // block of code to be executed if the condition is true  
}
```

### 38. What is else statement?

Use `else` to specify a block of code to be executed, if the same condition is false.

### 39. Syntax of if else statement?

```
if (condition) {  
    // block of code to be executed if the condition is true  
} else {  
    // block of code to be executed if the condition is false  
}
```

### 40. What is nested if else?

Nested if..else statements are the ones in which one conditional statement (if statement or if..else statement) is nested inside another conditional statement (if statement or if..else statement).

### 41. Syntax of nested if else?

```
if (condition) {  
    if(condition){  
        Your statement  
    }else{  
        Your statement  
    }  
} else {  
    if(condition){  
        Your statement  
    }else{  
        Your statement  
    }  
}
```

## 42. What is ladder if else statement?

The "if-else ladder" is a control structure in JavaScript that allows you to execute a different block of code depending on multiple conditions.

## 43. What is a ladder if else syntax?

```
if (condition1) {  
    // code to be executed if condition1 is true  
} else if (condition2) {  
    // code to be executed if condition1 is false and condition2 is true  
} else if (condition3) {  
    // code to be executed if condition1 and condition2 are false and condition3 is true  
} ...  
else {  
    // code to be executed if all conditions are false  
}
```

## 44. What is switch case statement?

The `switch` statement is used to perform different actions based on different conditions.

## 45. Syntax of switch case statement?

```
switch(expression) {  
    case x:  
        // code block  
        break;  
    case y:  
        // code block  
        break;  
    default:  
        // code block  
}
```

**46.  $10 > 5$  What ans this expression?**

Ans = true

**47.  $10 > 10$  What ans this expression?**

Ans = false

**48.  $10 >= 10$  What ans this expression?**

Ans = true

**49.  $10 < 10$  What ans this expression?**

Ans = false

**50.  $10 <= 10$  What ans this expression?**

Ans = true

**51.  $10 == 10$  What ans this expression?**

Ans = true

**52.  $10 != 10$  What ans this expression?**

Ans = false

**53.  $10 == 9$  What ans this expression?**

Ans = false

**54.  $10 != 9$  What ans this expression?**

Ans = true

**55.  $10 == "10"$  What ans this expression?**

Ans = true

**56.  $10 === "10"$  What ans this expression?**

Ans = false

**57.  $"10" === "10"$  What ans this expression?**

Ans = true

**58. "10" == "10" What ans this expression?**

Ans = true

**59. 10 === 10 What ans this expression?**

Ans = true

**60. "10" !== "10" What ans this expression?**

Ans = false

**60. 10 > 5 && 10 > 2 What ans this expression?**

Ans = true

**61. 10 > 5 && 10 > 2 && 10 > 9 What ans this expression?**

Ans = true

**62. 10 > 5 && 10 > 22 && 10 > 9 What ans this expression?**

Ans = false

**63. 10 > 5 || 10 > 22 || 10 > 9 What ans this expression?**

Ans = true

**64. 10 == 10 && 9==9 && 5==5 What ans this expression?**

Ans = true

**65. 10 != 10 || 9!=9 || 5!=5 What ans this expression?**

Ans = true

**66. a; !a What ans this expression?**

Ans true

**67. a=5; !a What ans this expression?**

Ans false

**68. What meaning of a > b?**

Variable a value big from b variable and variable b value small from a variable.

**69. What meaning of a >= b?**

**70. What meaning of a <= b?**

**71. What meaning of a == b?**

Variable a value and variable b are same.

**72. What meaning of a != b?**

Variable a value and variable b are not same.

**73. What meaning of a === b?**

Variable a value and data type and variable b value and data type both are same.

**74. Difference between == and ===**

== check only on value

If both variable value are same return true.

=== check the value and check variable data type

If both variable value are same and both variable data type same return true ans.

**75. What is loop in javascript?**

Loops can execute a block of code a number of times.

Loops are handy, if you want to run the same code over and over again, each time with a different value.

**76. How many types loop in javascript?**

Main three loops in javascript



1. while loop
2. do while loop
3. for loop

## 77. How many types loop in javascript?

The while loop loops through a block of code as long as a specified condition is true.

## 78. What syntax in while loop?

```
while (condition) {  
    // code block to be executed  
}
```

## 79. What is entry control loop?

Entry controlled loop is a loop in which the test condition is checked first, and then the loop body will be executed.

## 80. Who loop is entry control loop?

While loop is entry control loop.

## 81. What is do while loop?

The do while loop is a variant of the while loop. This loop will execute the code block once, before checking if the condition is true, then it will repeat the loop as long as the condition is true.

## 82. What is do while loop syntax?

```
do {  
    // code block to be executed  
}
```

```
while (condition);
```

### 83. What is exit control loop in javascript?

The exit control loop checks the condition for an exit.

### 84. Who loop is exit control loop?

do while loop is exit control loop.

### 85. What is for loop?

JavaScript for loop is used to iterate the elements/code block a fixed number of times. It is used if the number of the iteration is known.

### 86. What syntax is for loop?

```
for (expression 1; expression 2; expression 3) {  
    // code block to be executed  
}
```

### 87. What is break statement?

The break statement "jumps out" of a loop.

### 88. What ans this code ?

```
for (let i = 0; i < 10; i++) {  
    if (i === 3)  
    {  
        break;  
    }  
    text += "The number is " + i + "<br>";  
}  
document.getElementById("demo").innerHTML = text;
```

Ans :-

```
The number is 0  
The number is 1  
The number is 2
```

## 88. What ans this code?

```
for(var i=0;i<=10;i=i+3)  
{  
    console.log(i);  
}
```

Ans :- 0 3 6 9

## 89. What ans this code?

```
Var i = 1;  
while(i<=10){  
    console.log(i);  
    i = i + 2  
}
```

Ans :- 1 3 5 7 9

## 90. What is the continue statement in javascript?

The continue statement breaks one iteration (in the loop), if a specified condition occurs, and continues with the next iteration in the loop.

## 91. What Output this code?

```
for (let i = 0; i < 10; i++) {  
    if (i === 3 || i === 5) {  
        break  
    }  
    console.log(i)  
}
```

Ans :- 0 1 2

## 92. What Output this code?

```
for (var i = 0; i <= 10; i++) {  
    if (i === 3 || i == 5) {  
        continue  
    }  
    console.log(i)  
}
```

Ans :- 0 1 2 4 6 7 8 9 10

## 93. What Output this Code?

```
var i=1;  
while(i<=10) {  
    if(i>=2 && i<=7){  
        console.log(i);  
    }  
    i++;  
}
```

Ans : - 2 3 4 5 6 7

## 94. What Output this code?

```
var i=1;  
while(i<=10) {  
    if(i>=5 && i<=15){  
        console.log(i);  
    }  
    i = i +3;  
}
```

## 95. What Output this code?

```
var i=1;  
while(i<=10) {  
    if(i>=5 && i<=15){  
        console.log(i);  
    }  
    i = i + 3;  
}
```

Ans :- 7 10

### 96. What Output this code?

```
var i=1;
  var a=1;
  while(i<=10) {
    if(i>=5 && i<=15){
      a++;
    }
    i = i + 3;
  }
  console.log(a);
```

Ans = 3

### 97. What Output this code?

```
var i=0
  do{
    console.log(i);
    i = i + 5;
  }while(i<=15);
```

### 98. What Output this code?

```
var i=0
var a=2;
do{
  a++;
  i = i + 5;
}while(i<=15);
console.log(a);
```

Ans = 6

### 99. What Output this code?

```
var i=1
```

```
for(;i<=10;){  
    console.log(i);  
    i++;  
}
```

Ans :- 1 2 3 4 5 6 7 8 9 10

## 100. What Output this code?

```
var i=1  
for(i=1;i<=20;i++){  
    if(i%2 && i%3 && i%5){  
        console.log(i);  
    }  
}
```

Ans :- 1 7 11 13 17 19

## 101. What is Output this code?

```
var i=1  
for(i=1;i<=50;i++){  
    if(i%3==0 && i%5==0){  
        console.log(i);  
    }  
}
```

Ans :- 15 30 45

## 102. What is function in javascript?

A JavaScript function is a block of code designed to perform a particular task.

## 103. How Many types function in javascript and Which?

2 types in function

1. Predefine function / built in function
2. Udf function

## 104. What is pre-define / built in function?

A pre-defined function is built into the software and does not need to be created by a programmer.

## 105. Example of pre-define / built in function?

isNaN , Number , String , parseInt, parseFloat , prompt() , alert()

## 106. What is udf function?

User create function and own name this function type user define function.

## 107. How many types of udf function?

4 types

## 108. Write Udf all function name?

1. TNRN :- take nothing return nothing (simple function / normal function / no return with no parameter function)
2. TSRN :- take something return nothing. (no return with parameter function)
3. TNRS :- take nothing return something. (return with no parameter)
4. TSRS :- take something return something. (return with parameter)

## 109. Syntax of TNRN function?

```
function fun_name(){  
    //block of code  
}
```

## 110. Syntax of TSRN function?

```
function fun_name(a){  
    //block of code  
}  
fun_name(10)
```

## 111. Syntax of TNRS function?

```
function fun_name(){  
    return 10  
}  
var ans = fun_name()  
console.log(ans);
```

## 112. Syntax of TSRS function?

```
function fun_name(a){  
    return a  
}  
var ans = fun_name(10)  
console.log(ans);
```

## 113. What is recursion function?

Recursion is a process of calling itself. A [function](#) that calls itself is called a recursive function.

## 114. Syntax recursion function?

```
function recurse() {  
    if(condition) {  
        recurse();  
    }  
    else {  
        // stop calling recurse()  
    }  
}  
recurse();
```

## 115. What is nested function?

In JavaScript, Functions within another function are called “Nested function.



## 116. Syntax of nested function?

```
function nestedFun(){  
  function sum(){  
    //block of code  
  }  
  function min(){  
    //block of code  
  }  
  sum()  
  min();  
}  
nestedFun()
```

## 117. What is closure function?

Closures are a powerful and fundamental concept in JavaScript. They allow inner functions to access variables from their outer scope, even after the outer function has completed execution.

## 118. Syntax of closer function?

```
function Outer(){  
  function Inner(){  
    return //block of code  
  }  
}
```

## 119. What is Arrow function?

Arrow functions were introduced in ES6.

Arrow functions allow us to write shorter function syntax:

## 120. What is Arrow function?

Arrow functions are anonymous functions i.e. functions without a name but they are often assigned to any variable.

## 121. What syntax of TNRN arrow function?

```
const myfun = () => {  
    //block of code  
}
```

## 122. What syntax of TSRN arrow function?

```
const my_fun(a,b){  
    console.log(a+b);  
}  
my_fun(10,5)
```

## 123. What syntax of TNRS arrow function?

```
const my_fun(){  
    let a = 10,b=5  
    return a+b;  
}  
let ans = my_fun()  
console.log(ans)
```

## 124. What syntax of TSRS arrow function?

```
const my_fun(a,b){  
    return a + b  
}  
let ans = my_fun(10,5)  
console.log(ans)
```

## 125. What is IIFE ?

An immediately invoked function expression, or IIFE (pronounced iffy), is a function that is called immediately after it is defined.

## 126. What syntax of IIFE function?

```
(function (){  
  // Function Logic Here.  
})();
```

## 127. What is array of javascript?

JavaScript Array is a data structure that allows you to store and organize multiple values within a single variable. It is a versatile and dynamic object. It can hold various data types, including numbers, strings, objects, and even other arrays.

## 128. How many types of array and which name ?

Array two types

1. One dimensional array
2. Two dimensional array

## 129. Declaration of an one dimensional Array

```
let arr = [10,45,23,78,18]
```

## 130. What is two dimensional Array

The two-dimensional array is a collection of items that share a common name and they are organized as a matrix in the form of rows and columns.

### 131. What is array element starting position / index?

Array starting position / index 0 index.

### 132. Declaration of an one dimensional Array

```
let arr = [  
  [1,2,3],  
  [11,12,13],  
  [21,22,23]  
]
```

### 133. How to array element last index find ?

```
let arr = [10 , 34 , 45 , 67 , 11]
```

```
arr.length-1
```

### 134. Create this array [11,12,13,14,15] and access the 13 value

```
let array = [11,12,13,14,15]  
console.log(arr[2])
```

### 135. How to create the empty array in javascript?

```
let arr = []
```

### 136. What output this code?

```
let arr = [11,12,13,14,15];  
console.log(arr[5]);
```

Ans :- undefined

### 137. What output this code?

```
let arr = [11,12,13,14,15];  
  console.log(arr.length-1);
```

Ans = 4

### 138. What output this code?

```
let arr = [  
  [1,2,3],  
  [4,5,6],  
  [7,8,9]  
]  
  console.log(arr[0]);
```

Ans :- [1 2 3]

### 137. What output this code?

```
let arr = [  
  [1,2,3],  
  [4,5,6],  
  [7,8,9]  
]  
  console.log(arr[0][2]);
```

Ans :- 3

### 138. What output this code?

```
let arr = [  
  [1,2,3],  
  [4,5,6],
```

```
[7,8,9]  
]  
console.log(arr[1][1]);
```

Ans :- 5

### **139. What is method of array length find?**

length() method

### **140. Which method remove Array last value?**

pop() method

### **141. Which method adds a new element to an array at the end**

push() method

### **142. Which method removes the first element of an array**

shift() method

### **143. Which method add the first element of an array ?**

unshift() method

### **144. What output this code?**

```
let arr = [11,22,33,44,55];  
arr[2] = 3  
console.log(arr);
```

Ans :- [11,22,3,44,55]

### 145. What output this code in console?

```
let arr = []  
  console.log(arr);
```

Ans :- [] empty array

### 146. What Output this code?

```
let arr = []  
  arr[0]=1;  
  arr[1]=2;  
  arr[2]=3  
  arr[3]=4  
  console.log(arr.length-1 + arr[2]);
```

Ans = 6

### 147. Which method concat two array

concat() method

### 148. The JavaScript Which method converts an array to a string of (comma separated) array values.

toString() method

### 149. const fruits = ["Banana", "Orange", "Apple", "Mango"] array new element add in last position?

Ans :- fruits.push("kivi") last position kivi value add

**150. const fruits = ["Banana", "Orange", "Apple", "Mango"]  
convert this array to string?**

Ans :- let ans = fruits.toString() array are string converted.

**151. const fruits = ["Banana", "Orange", "Apple", "Mango"]  
remove the last element in array**

Ans = fruits.pop() mango remove this array

**152. const fruits = ["Banana", "Orange", "Apple", "Mango"]  
remove the first element in array**

Ans = fruits.shift() banana remove this array

**153. const fruits = ["Banana", "Orange", "Apple", "Mango"]  
add the first element in array**

Ans = fruits.unshift() banana remove this array

**154. What is array indexOf method?**

The indexOf() method searches an array for an element value and returns its position.

**155. Array index value not found which ans return array  
indexOf method?**

Ans :- -1

**156. Which Output this code?**

```
let arr = [10,11,23,67,8];  
let ans = arr.indexOf(67)  
console.log(ans);
```



Ans :- 3

### 157. Which Output this code?

```
let arr = [10,11,23,67,8];  
  let ans = arr.indexOf(77)  
  console.log(ans);
```

Ans :- -1

### 158. What is array include() method?

Array.includes() to arrays. This allows us to check if an element is present in an array.

### 159. What Output this code?

```
let arr = [10,11,23,67,8];  
  let ans = arr.includes(8)  
  console.log(ans);
```

Return boolean value ans = true

### 160. What Output this code?

```
let arr = [10,11,23,67,8];  
  let ans = arr.includes(88)  
  console.log(ans);
```

Ans = false

### 161. What is array find method?

The `find()` method returns the value of the first array element that passes a test function.

## 162. What Output this code?

```
let arr = [10,11,23,67,8];
let ans = arr.find((val)=>{
  return val > 18
})
console.log(ans);
```

Ans : 23

First value find 23 return this value

## 163. What is array findIndex method?

The findIndex() method returns the index of the first array element that passes a test function.

## 164. What output this code?

```
let arr = [10,11,23,67,8];
let ans = arr.findIndex((val)=>{
  return val > 18
})
console.log(ans);
```

Ans = 2

23 value is arr 2 position this method return only on index return

And not condition match -1 value return

## 165. What is Array sort method in javascript?

The sort() method sorts an array alphabetically:

**166. `const fruits = ["Banana", "Orange", "Apple", "Mango"]` sort this array ascending order**

Ans :- `fruits.sort()`

## 167. What is Array reverse method in javascript?

The reverse() method reverses the elements in an array:

## 168. const fruits = ["Banana", "Orange", "Apple", "Mango"] reverse this array element?

Ans :- fruits.reverse()

## 169. What is array forEach in javascript?

The forEach() method calls a function (a callback function) once for each array element.

## 170. Syntax of array forEach in javascript?

```
let arr = [10,11,23,67,8];
    arr.forEach((callback function)=>{
//block of code
    })
```

## 171. What is array map method in javascript?

The `map()` method creates a new array by performing a function on each array element.

## 172. Syntax of array map in javascript?

```
let arr = [10,11,23,67,8];
    arr.map((callback function)=>{
//block of code
    })
```

## 173. What is array filter method in javascript?

The filter() method creates a new array with array elements that pass a test.

## 174. Syntax of array filter in javascript?

```
let arr = [10,11,23,67,8];
arr.filter((callback function)=>{
  return //some condition
})
```

## 175. Difference between map , filter and forEach in javascript?

map() will return a new array as per the conditions applied.

forEach() will not return anything.

forEach() returns undefined. filter() method will return an array of matching elements else will return an empty array if no matching happens.

## 176. What is javascript every method?

The every() method checks if all array values pass a test.

## 177. What Output this code?

```
let arr = [10,11,23,67,8];
let ans = arr.every((item)=>{
  return item > 18
})
console.log(ans);
```

Ans :- false

Because this method use array all element greater then 18 compulsory.

## 178. What Output this code?

```
let arr = [19,45,23,67,35];
let ans = arr.every((item)=>{
  return item > 18
})
console.log(ans);
```

Ans :- true

Why true because array all element value more then 18 up this ans true.

## 179.What is javascript some method?

The some() method checks if some array values pass a test.

## 180. What Output this code?

```
let arr = [5,34,7,9,10];
let ans = arr.some((item)=>{
  return item > 18
})
console.log(ans);
```

Ans : true

Why true because this method work array all element any one value more then 18 up return ans true all condition wrong by ans false.

## 181. What is let in javascript?

In JavaScript, let is a keyword that is used to declare a block scoped variable.

## 182. What is const in javascript?

In JavaScript, const is a keyword used to declare a variable that cannot be reassigned a new value.

### **183. What is var keyword in javascript?**

The var statement is also used to declare global-scope variables.

### **184. Difference between let const and var keyword in javascript?**

let use create a variable but this variable scope is block

Var use create a variable but this variable scope is global scope

const creates "constant" variables that cannot be reassigned another value.

### **185. Math.PI method use in javascript?**

Return this value 3.14

### **186. Math.round() in javascript**

Math.round(x) returns the nearest integer

Math.round(4,6)

Ans = 5

### **187. Math.ceil() in javascript**

Math.ceil(x) returns the value of x rounded up to its nearest integer:

Math.ceil(4,9)

Ans :- 5

### **188. Math.floor in javascript.**

Math.floor(x) returns the value of x rounded down to its nearest integer:

Math.floor(4,7)

Ans = 7

## 189. Math.pow in javascript.

Math.pow(x, y) returns the value of x to the power of y

Math.pow(8,2) //

Behind since  $8 * 8$

Math.pow(8,3)

Behind since  $8 * 8 * 8$

Ans = 512

## 190. Math.sqrt in javascript.

Math.sqrt(x) returns the square root of x

Math.sqrt(64)

Ans = 8

## 191. Math.min() in javascript.

Math.min() used to find the lowest value.

Math.min(11,23,65,8,7);

Ans :- 7

## 192. Math.max() in javascript.

Math.max() can be used to find the highest value in a list of arguments

Math.max(5,34,23,76,18)

Ans :- 76

### 193. Math.random() in javascript

Math.random() returns a random number between 0 (inclusive), and 1 (exclusive):

```
Math.random()
```

Ans :- 0.12393659455581862

### 194. The getTime() method in javascript.

getTime() returns the number of milliseconds since January 1, 1970

195. The getFullYear() method in javascript.

getFullYear() returns the year of a date as a four digit number.

196. How to get current year?

```
var d = new Date();
```

```
document.getElementById("demo").innerHTML = d.getFullYear();
```

Ans :- your current year

2024

196. The getDay() Method in javascript.

getDay() returns the weekday as a number (0-6)

### 197. How to get current day in javascript.

```
var d = new Date();
```

```
document.getElementById("demo").innerHTML = d.getDay();
```

Ans :- 1

### 198. What output this code?

```
var d = new Date();
```

```
var days = ["Sunday","Monday","Tuesday","Wednesday","Thursday","Friday","Saturday"];
```

```
document.getElementById("demo").innerHTML = days[d.getDay()];
```



Ans :- Monday

## 199. JavaScript getDate() Method

Return the day of the month:

## 200. What Output this code

```
var d = new Date();  
var n = d.getDate();
```

Ans :- 18

## 201. JavaScript getHours() Method

Return the hour, according to local time

## 202. What Output this code?

```
var d = new Date();  
var n = d.getHours();
```

Ans :- 16

## 203. JavaScript getMinutes() Method

Return the minutes, according to local time

204. What Output this code?

```
var d = new Date();  
var n = d.getMinutes();
```

Ans :- Your local minute

205. JavaScript getMonth() Method

Return the month

## 206. What Output this code?

```
var d = new Date();  
var n = d.getMonth();
```

Ans :- 2

## 207. What is string?

Strings are for storing text

Strings are written with quotes

## 208. JavaScript string length method Method

The length property returns the length of a string

## 209. What is output this code?

```
let text = "ABCDEFGHIJKLMNOPQRSTUVWXYZ";  
let length = text.length;
```

Ans :- 26

## 210. JavaScript String charAt()

the charAt() method returns the character at a specified index (position) in a string

## 211. JavaScript String slice() method

slice() extracts a part of a string and returns the extracted part in a new string.

## 212. What Output this code?

```
let text = "Apple, Banana, Kiwi";  
let part = text.slice(7, 13);
```

Ans :- banana

## 213. JavaScript String substring() method

substring() is similar to slice()

Same work by string slice

## 214. JavaScript String uppercase

A string is converted to upper case with toUpperCase()

## 215. What output this code?

```
let text1 = "Hello World!";  
let text2 = text1.toUpperCase();
```

Ans :- HELLO WORLD

## 216. JavaScript String lowercase

A string is converted to lower case with toLowerCase()

## 217. What Output this code

```
let text1 = "Hello World!";  
let text2 = text1.toLowerCase();
```

Ans :- hello world!

## 218. What method use two string join?

`str.concat()`

## 219. What method use string convert to array?

`split()`

## 220. What Output this code?

```
let arr = "hello how r u";  
console.log(arr.split(""));
```

## 221. What is object in javascript?

An object is a collection of properties, and a property is an association between a name (or key) and a value.

## 222. What is create empty object?

```
let obj = {}
```

## 223. Create a single object person add two properties like name and age.

```
let obj = {  
  name : "abc",  
  age : 28  
}
```

## 224. Create this object and get the name value

```
let obj = {  
  name : "abc",  
  age : 28  
}
```

```
console.log(obj.name)
```

## 225. What is this keyword in object javascript?

In JavaScript, the this keyword refers to an object.

## 226. Example of this keyword object in javascript.

```
const person = {  
  firstName: "John",  
  lastName: "Doe",  
  id: 5566,  
  fullName : function() {  
    return this.firstName + " " + this.lastName;  
  }  
};
```

## 227. Adding method / function in object.

```
const person = {  
  firstName: "John",  
  lastName: "Doe",  
  id: 5566,  
};  
  
person.name = function() {  
  return this.firstName + " " + this.lastName;  
};  
  
console.log(person.name())
```

## 228. What is object with array?

It stores multiple values in a single variable.

## 229. What example of array of object in javascript?

```
let myObject = {  
  jhon: {  
    name: 'jhon',  
    age: 12,  
    gender: 'male'  
  },  
  rita: {  
    name: 'rita',  
    age: 32,  
    gender: 'male'  
  }  
};
```

## 230. Example of object with loop

```
const info = {  
  name: 'Amit Gupta',  
  email: 'xyz@gmail.com',  
  age: 22,  
  dob: '08/02/2000',  
};  
  
// Iterate over the info object using for..in loop  
  
for (const key in info) {  
  console.log(`${key}: ${info[key]}`);  
}
```









