

1. What is javascript and what are the features of javascript?

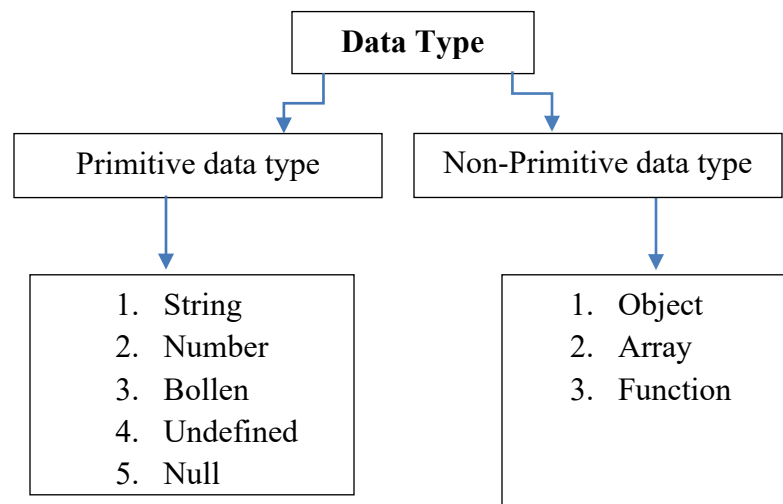
Ans:- javascript is a scripting language that is used to create a interactive and dynamic websites.

➤ Features of javascript :-

1. Less server interaction.
2. Immediate feedback to the visitors.
3. Increase interactivity.
4. Direct interpreter.
5. Case sensitive.

2. What are the data types supported by javascript? Write an example program.

Ans:-



Example program

1. Strings

```
let first = "Name";
name = 'ram';
console.log(first);
```

2. Number

```
let num1 = 100;
num2 = 8.888;
console.log(num1);
console.log(num2);
```

3. Boolean

```
const learn = true;
const execute = false;
console.log(learn);
```

1. Object

```
let emp1 = { name : 'vivek',
name : 'vivek@gmail.com',
age : 22
};
```

```
console.log(emp1.name);
```

2. Array

```
let number = [1,'new',2,3];
console.log(number[1]);
```

3. Functions

```
function msg(){
    console.log('hello'); } msg();
```

4. Undefined

```
let value_1;  
console.log(value_1);
```

5. Null

```
let value_2 = null;  
console.log(value_2);
```

3. What is operators? Write a three example program for each operator.

Ans:- operator that are used to perform operation on operand.

Program:-

1. Arithmetic operator

```
let a = 10;  
b = 10;  
total = a + b;  
total = a - b;  
total = a * b;  
total = a / b;  
total = a % b;  
total = a ** b;  
console.log(total);
```

2. assignment operator

```
let a = 10;  
a += 5;  
a -= 5;  
a *= 5;  
a /= 5;  
a %= 5;  
a **= 5;  
console.log(a);
```

3. comparison operator

```
let a = 10;  
b = 10;  
console.log(a < b);  
console.log(a > b);  
console.log(a <= b);  
console.log(a >= b);  
console.log(a == b);  
console.log(a === b);  
console.log(a !== b);
```

4. What are all the display possibilities in javascript? Write an example program.

Ans:- `alert('Welcome to JS');`

`document.write("hi");`

`console.log("Hello world!!");`

`document.getElementById("box").innerHTML = "Hello World!";`

5. What is object explain briefly and write an example program which display the 5 employees display.

Ans:- object in javascript collective where each property is defined as a key value pair.

Program:-

```
let emp1 = { name : 'vivek', };  
let emp2= { name : 'Ram', };  
let emp3 = { name : 'arjun', };  
let emp4 = { name : 'sanjay', };  
let emp5 = { name : 'sam', };  
console.log(emp1.name);  
console.log(emp2.name);  
console.log(emp3.name);  
console.log(emp4.name);  
console.log(emp5.name);
```

6. Explain a ten string methods with examples?

Ans:- 1. **String length :-** The length properties return the length of the string

Example:- let str = "hello";

```
Console.log(str.length);
```

2. **charAt(index):-** return the character at the specified index in a string.

Example:- let str1 = "hello";

```
console.log(str1.charAt(0));
```

3. **concat(str1,str2.....):-** one or most with calling a new string and return the new string.

Example:- let _str1 = "world";

```
let _str2 = "Hello";
```

```
console.log(_str1.concat(" ",_str2));
```

4. **Includes:-** If a string contain it specifies substring and return true or false.

Example:- let \$1 = "Hello World";

```
console.log($1.includes("o"));
```

5. **IndexOf:-** Return the index of first occurs of the specified values in string.

Example:- `let $index = "Hello World";`

```
console.log($index.indexOf("H"));
```

6. **Replace:-** Is a specified values or pattern in a string with another value it return a new string.

Example:- `let str4 = "hello hi";`

```
console.log(str4.replace("hello hi","good moring"));
```

7. **Slice:-** Extract a section of a string and return new string without modifying a original string.

Example:- `let str5 = "Hello World";`

```
console.log(str5.slice(2));
```

8. **Split:-** A string into array of substring based on a specified saporater and return the array.

Example:- `let str6 = "Hello,World";`

```
let str7 = " Hello World ";
```

```
console.log(str6.split(" "));
```

9. **toUpperCase:-** Convert case to upper case string value.

Example:- `let str6 = "Hello,World";`

```
let str7 = " Hello World ";
```

```
console.log(str6.toUpperCase(" "));
```

10. **Trim:-** Remove white space in both the ends of string

Example:- `let str7 = " Hello World ";`

```
console.log(str7.trim(" "));
```

7. What is array and explain five methods with example.

Ans:- Array is a special variable which can more than one value.

Five methods:-

1. **Length():-** It will display a length of array characters.

Example:- `const fruits = ["Apple","mango","banana"];`

```
let size = fruits.length;
```

```
console.log(size);
```

2. **at():-** It is like string index.

Example:- `const fruits = ["Apple","mango","banana"];`

```
let size1 = fruits.at(1);
```

```
console.log(size1);
```

3. **Join()**:- New value will be add to the all array element.

Example:- `const fruits = ["Apple","mango","banana"];`

```
let size2 = fruits.join("");
```

```
console.log(size2);
```

4. **Pop()**:- A pop element removes the last element of the array.

Example:- `const fruits = ["Apple","mango","banana"];`

```
console.log(fruits);
```

```
console.log(fruits.pop(""));
```

```
console.log(fruits);
```

5. **Push()**:- It will add the element to the last element side.

Example:- `const fruits = ["Apple","mango","banana"];`

```
console.log(fruits);
```

```
console.log(fruits.push("Kiwi"));
```

```
console.log(fruits);
```