1. **what are the primitive and non-primitive data type and what are the differences?**

=> Javascript provides 5 datatypes that is

* + String,
  + number
  + Boolean
  + undefined
  + null;

And javascript classified into 2 types that is **Primitive and Non-primitive**

**Primitive** dataType are

* + - String
    - Number
    - Boolean
    - Undefined
    - Null

Properties of primitive type is pass by value or copy by value

**Non-primitive** dataTypes are

Object and Array

Properties of non primitive type is pass by reference or copy by reference

Array and object are container it means it can contain and hold anything, but actually javascript array is object in nature.

Object contains key value pair, key contains only string

e.g.

{

“k” : 1 ;

“k” : “abc” ;

“k” : [] ;

}

**2. Difference between null and undefined data type?**

=> undefined is assigned by javascript engine.

Undefined means variable has been declared but no assigned value to variable.

e.g. var a;

var b;

Null is assigned by programmer or developer.

Null is datatype or keyword which is assigned to the variable by developer

After assigning null to the variable, the variable represent as a no value.

E.g. var a=null;

**3. How do you check datatype in javascript?**

=> In javascript, there is a predefined keyword typeof.

Typeof keyword returns datatype of variable

e.g var a=10;

typeof a; //returns Number

4. Output of a?

var a = "foo";

a = 123;

a = null;

a = 123;

console.log(a); // ?

=>

5. Find length of array?

(i)

var arr=[[{foo:"bar",num:99}],"foo",["bar"],true,null];

(ii). var arr = [[[[[]]],[]],[[],[]],[[[]]]];

(iii). var arr = [];

arr[2] = 42;

arr[9] = null;

arr[2] = 24;

arr[19] = 19;



