In Javascript, a primitive data type is data that is not an object and has no methods or properties. At types except Object define immedate values. These values are primitive values. - string number - bigint - boolean - undefined - Symbol - null All primitives are immutable; that is, they cannot be altered. The variable assigned to a primitive value, may be reassigned to a new value, but the existing value can never be changed in the ways that objects, arrays, and functions can be altered. Primitives have no methods but behave as if they do when properties are accessed or methods are called on primitives, JS auto-boxes the values indo a wrapper object and access property on that object instead. For examples: "Ajay". includes "a" implicitly creates a string wapper object and calls string prototype. includes method on that object.

their ref. Undefined primitive types have "object" and "undefined" as their return type values, and do not have Object wrapper. String A string is a sequence of characters used to represent text. Object a String is a sequence of characters used to the String object a String is one of the primitive DT or value and the String object is a wrapper around a string primitive. humber In JS, number is a no numeric data type in the double-precision 64-bit floating point format IEEE 754. In Is, it is a numeric primitive that can represent integers with arbitrary magnitude. Number MAX\_SAFE\_INTEGER = 9007199254740991 Above that value, bigint is used, and is created using wrapper object, BigInt. - boolean -It represents a dogical entity with two values: true or false. - null: It is inhabited by exactly one value: null. - underined: It is inhabited by exactly one value: undefined Conceptually, undefined indicates the absence of a value, while null indicates the absence of an object (type of null === "object") Is usually defaults to undefined when something is devoid of a - A return statement with no value (return;) implicitly returns undefined. I - accessing a non-existent object property (obj. habla Exist) returns undefined. - a variable declaration without initialisation implicitly initialise the variable to undefined. 67 - many methods like Amay prototype find 1) return undefined 27 when no element is found.

Nan ("Not a Number") is aspecial bind of number value that's typically encountered when the result of an arithmetic operation cannot be expressed as number. It is the only value in JS, that is not equal to itself. null is a keyword, whereas undefined is a normal identifier that happens to be a global property. - Symbol: Symbols are new primitive type. They are completely unique identifiers. They are created using factory flunction Symbol(): const symbol = Symbol ('description'): A new and unique symbol is created. So, every symbol has its own identity: Symbol() = = = Symbol() // false Use Cases: - Symbols are keys of non-public properties whenever there are inheritance heirarchies in JS, two kinds of properties are there: 1. public properties are seen by dients of the code 0 2. private properties are used internally within the pieces W that make up the inheritance hierarchy (eg: classes, objects). (B) For usability's sake, public properties usually have string keys. But for private properties with string keys accidental name classes can become a problem. Therefore symbols are good choice. Note: symbols only profects you from name clashes, not from unauthorized access W thages: O 1. To allow us to define constants with semantic names and unique values. 2. When we want to prevent collisions with keys in objects. 3. When we do not want our object properties to be enumerable 4. To define how an object can be iterated. (3) U CO CE 13 0