1. Write a blog on Difference between HTTP1.1 vs HTTP2

| **HTTP/1.1** | **HTTP/2** |
| --- | --- |
| Ithe usest works on the textual format. | It works on the binary protocol. |
| There is head of line blocking that blocks all the requests behind it until it doesn’t get its all resources. | It allows multiplexing so one TCP connection is required for multiple requests. |
| It uses requests resource Inlining for use getting multiple pages | It uses PUSH frame by server that collects all multiple pages |
| It compresses data by itself. | It uses HPACK for data compression. |

1. Write a blog about objects and its internal representation in Javascript
2. Write a blog about objects and its internal representation in JavaScript

“A JavaScript object is a collection of named values having state and behaviour (properties and method)”.

For example: Person, car, pen, bike, Personal Computer , Washing Machine etc.

Take the case of cars.

All cars have the same properties, but the property values differ from car to car. All cars have the same methods, but the methods are performed at different times.

Let’s have an example of my favorite merc car and list out its properties(Features):

1. Make: Mercedes
2. Model: C-Class
3. Color: White
4. Fuel: Diesel
5. Weight: 850kg
6. Mileage: 8Kmpl
7. Rating: 4.5

Taking the above as reference, I'll stress up on objects, Object properties and Methods.

**1)Objects:**

The following code assigns a **simple value** (Mercedes) to a **variable** named car:

var car = "Mercedes";

Objects are variables too. But objects can contain many values.

The following code assigns **many values** (Mercedes, C-class, White and soo on) to a **variable** named Car:

var car = {Make: “Mercedes”, Model: “C-Class”, Color: “White”, Fuel: Diesel, Weight: “850kg”, Mileage: “8Kmpl”, Rating: 4.5};

The values are written as **name:value** pairs (name and value separated by a colon).

Syntax:

var <object-name> = {key1: value1, key2: value2,... keyN: valueN};

So, conclusion and definition for JS objects is “JavaScript objects are containers for named values”.

**2)Object Properties**

The name:values pairs (in JavaScript objects) are called **properties**.

var car = {Make: “Mercedes”, Model: “C-Class”, Color: “White”, Fuel: Diesel, Weight: “850kg”,Mileage: “8Kmpl”, Rating: 4.5};

From the above snippet, let’s have a look what falls under property and property value:

The object properties can be different primitive values, other objects and functions.

Properties can usually be changed, added, and deleted, but some are read only.

**The syntax for adding a property to an object is :**

ObjectName.ObjectProperty = propertyValue;

**The syntax for deleting a property from an object is:**

delete ObjectName.ObjectProperty;

**The syntax to access a property from an object is:**

objectName.property        // Car.Make

//or

objectName["property”]    // Car["Make"]

//or

objectName[expression]   // x = "Make"; Car[x]

So, Conclusion and simple definition for Java Script properties is “Properties are the values associated with a JavaScript object”.

**3)Object Methods**

An object method is an object property containing a function definition.

i.e.,

Let’s assume to start the car there will be a mechanical functionality.

function(){return ignition.on}

and so similar is to stop/brake/headlights on & off, etc.

 (I’m just trying to roll a picture in your mind. The car will not start / stop by means of code. I assume you’d get it).

You can also look into many examples & operations [here](https://www.w3schools.com/js/js_object_definition.asp#:~:text=Ruby%20and%20Perl-,Object%20Methods,property%20containing%20a%20function%20definition.&text=JavaScript%20objects%20are%20containers%20for%20named%20values%2C%20called%20properties%20and%20methods.).

So, Conclusion and simple definition for Java Script Object methods is “Methods are actions that can be performed on objects.”.

      An object is reference data type. Variable that are assigned a reference value are given a reference or a pointer to that value that reference or pointer points to the location in memory where the object is stored.The variables don’t actually store the value.

               Objects in javascript may be defined as an unordered collection of related data , of primitive or reference types, in the form of ‘key:value’ pairs. These keys can be variable or function and are called properties and methods, respectively, in the context of an object.