1. Write a blog on difference between HTTP1.1 and HTTP2

|  |  |
| --- | --- |
| **HTTP 1.1** | **HTTP 2** |
| 1. **Multiplexing** : It’s loaded the resources one after another. If its unable to load the resources, it blocks all the resources behind it | 1. **Multiplexing** :It’s a single TCP connection to send a multiple data at once so there is no blocks to other resources |
| 1. **Server Push :** Server only serves the content to the client device if it’s for client asks. which means the client device several resources need to be send to the server | 1. **Server Push :** Here the problem has been solved which means the server to push the content to a client before client asks for it |
| 1. **Header Compression :** Small files load more quickly than large ones. HTTP messages to make smaller. | 1. **Header Compression :** Here the HTTP2 uses more advanced compression method is called HPACK. Its eliminate the irrelevant content. And its reduces some bytes from HTTP packets |
| 1. **Prioritization :** It’s not allows the developer customize prioritization. | 1. **Prioritization :** Web performance also good. It’s allows the developer customize prioritization. The server sends several streams of the data to the client at once |

2. Write a blog about Object and its internal representation in Javascript

* A Javascript object is an entity having state and behavior (Properties and methods).
* Javascript is an Object based language. Everything is an Object in Javascript.
* A Javascript Object is a collection of named values called properties and method. Object values are written as key and pairs. Keys and values separated by a colon.
* Three ways to create a object

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1.By using Object literal

var objName= { key1 : value1, key2 : value 2 , key3 : value3};

2.By creating instance of object

var objName= new Object();

3.By using an Object Constructor

You need to create a function with arguments. Each argument value can be assigned in the current object by using this keyword

* + Eg :
  + function person(name, age) {
  + this.name= name;
  + this.age=age;
  + }

Example: Employee details

let employee  = {

        'firstName': 'Shiva',

        'lastName' : "Ruthra",

        'ID'       : "SN99" ,

        'Salary '  : [100000, 15000],

        'Address'  : "Pavoorchatram,Tenkasi"

   } ;

  console.log(employee);

Output :

{

  firstName: 'Shiva',

  lastName: 'Ruthra',

  ID: 'SN99',

  'Salary ': [ 100000, 15000 ],

  Address: 'Pavoorchatram,Tenkasi'

}

console.log(`Employee name is ${employee.firstName}${employee.lastName}`);

Output :

Employee name is ShivaRuthra

//employee ID

console.log(`Employee ID is ${employee.ID}`);

Output :

Employee ID is SN99

console.log(Object.keys(employee));

Output :

[ 'firstName', 'lastName', 'ID', 'Salary ', 'Address' ]

console.log(Object.values(employee));

Output :

[

  'Shiva',

  'Ruthra',

  'SN99',

  [ 100000, 15000 ],

  'Pavoorchatram,Tenkasi'

]

console.log(Object.entries(employee));

Output :

[

  [ 'firstName', 'Shiva' ],

  [ 'lastName', 'Ruthra' ],

  [ 'ID', 'SN99' ],

  [ 'Salary ', [ 100000, 15000 ] ],

  [ 'Address', 'Pavoorchatram,Tenkasi' ]

]

//  iteration in object

for (let key of Object.keys(employee))

{

    console.log(`${key} : ${employee[key]}`);

}

Output :

firstName : Shiva

lastName : Ruthra

ID : SN99

Salary  : 100000,15000

Address : Pavoorchatram,Tenkasi

for (let values of Object.values(employee))

{

    console.log(values);

}

Output :

Shiva

Ruthra

SN99

[ 100000, 15000 ]

Pavoorchatram,Tenkasi

for(let [key, value] of Object.entries(employee))

{

    console.log(`${key} : ${value}`);

}

Output :

firstName : Shiva

lastName : Ruthra

ID : SN99

Salary  : 100000,15000

Address : Pavoorchatram,Tenkasi

for (let key in employee)

{

    console.log(`${key} : ${employee[key]}`);

}

Output :

firstName : Shiva

lastName : Ruthra

ID : SN99

Salary  : 100000,15000

Address : Pavoorchatram,Tenkasi