Object Methods:

Objects

An object in JavaScript is a collection of data in key-value pairs where each key is a string (or a Symbol) and each value can be of any data type, including other objects, functions, arrays, and primitive data types like strings, numbers, and booleans. Objects are created using curly braces {}.

Creating Objects:

Literal notation:

```
let person = { name: "John", age: 30 };
Using the Object constructor:
```

```
let person = new Object();
person.name = "John";
person.age = 30;
```

Accessing Object Properties:

You can access object properties using dot notation or square bracket notation: console.log(person.name); // Dot notation console.log(person['age']); // Square bracket notation

```
Accessing Object Properties:

we can access object properties using dot notation of square tracket notation.

Example:

Let obj = {

name: "john";

age: 20;

console · log (obj) · // {2 name: "john", age: 20}

console · log (obj · name); // john

console · log (obj · name, obj age) // john

console · log (obj · name, obj age) // john

console · log (obj · name); // john

console · log (obj · name) // john

lage // john // john
```

```
Adding - Modifing proposties!
  obi · goods = "Male"; Il Adding New property
  obi age = 21; Il Modifino an existing property
  consoler log (objected); 11 male
  consoleolog (obj. age); 1/31
Examples:
     let 0 6 = 2
             valle &
                  name "John";
                  age : 30;
              3,
             Val 2 3 300
      console log (ob) ["val 1"] [ "age "]);
 Ext- Let obs={
             vals & function () 2
                  alex+ ( "hello woold");
             Val 2: 300
       consoleolog (obj ["valz");
  Object Methods!
      methodes are functions stored as object proposition.
  Example: - let obj = {
                 val1: [1,2, 2
                         nama : "john";
                          Val2 : [40,50,60, 2
                               name: "john 2")
                              va3:[1,2,3,4,5]
                    47 37
       consolering (obj ["val1"][2] ["val2"][3]["val3"][4]);
```

```
Delcating an object
             & dolete objenance+
               Methods in Js:
 chijecto Keye )
 object value()
              I. Object. Keys ():- Returns an array of a given objects
 object-ential
                                property name.
Object-assign()
                Example: - vag obj = {
Object. Free ZU
Object coal()
                                         C:3 3:
Objecthasoun
                             Console. log (Object . key (obj)); //["a","b", c"]
             2. Object. values ():- Returns an assay of a given object's
                  own enumerable property values.
               Ex: - vas obj = { a?1, b:2, c:33;
                     console.log (Objecto values (obj)); // [1,2,3]
           3. Object. entities! - Returns an assay of a given object's
                 Own enumerable string- Kejed property [ Key , value] Prop
              Ex! vag obj = { a : 1, b: 2, E:3};
                    consaleolog (Object entrie (Obj)); / ["", 1]["b", 2][""]
           4. Object. assign(): Copies the values of add enumerable own
                 Proposties from one are more source objects to a target
              Object.
Syntox:- Object-assign (tagget, new);
Exe- let obj = {
name = 4 john 11;
                               age = 25 -;
                    lex obj1 = { gender = "male";
                               Place = "hyd";
                    Object. assign (obj, obj 1);
                    Console log (obg);
               MolP: - I name: wohn 1, age= 25, gender imale, Place: hyd'}
```

```
" Object - create(): - creates a new object with the specified
  prototype object al Propostica.
   ( tobo obj = Object . Cache (noll);
                                   Dobject of null to Mandading.
        ionsole 109 (06) 1/1 4
      Tobi. name = "jenny";
         obj . age = 22;
         console log (obi); Il & name : "jenny", age = 22 }
       let obj I = Object. Geale ({city: "vizag "});
          obit : name = "jenny"
         console · log lobil) | { name : "jenny" }
         console log (obj I clity) 1/8 vizay.
 6. Object. Freeze(): Freezes an object, Preventing new
      proposties from being added to it, existing proposties
      from being semoved; d values from being changed.
    Ext let obi = {
                  name & "John")
                   age : 25;
         Object . Reeze (obj);
          obj name = " jenny"
          obj. gender = "female";
          delete objage;
          console. Log (obj);
        losp: { name: ujohn 11, age : 25}
```

```
7. Object. seal ():-
     Seal an object, preventing new propostions form being added
    to it and marking all existing properties as non-configural
        vas obj= { name: john, age: 25 };
        Object . seal (obj)
         Obj. name = "genry";
       Obj. gerder = " female";
 det: absideler obsage;
       console. log (obj);
    11 off: { name = "jenny", age: 25};
· it will just modify an object not and unable to add by
   delete.
8. Object . has Own Proposty ():-
   Returns a boolean indicating whether the object has the
   specified property as its own property.
  Grample:
       let obj = {
             name ; "john",
              age : 25
     console. by (Objects . has Own Proper ty ("name")))
     Il troe.
 How to itterde Objects:
 for in loop :
         Vel obi = {
name: "John", age: 25
          fosc 1 in obj){
                 consoke log(i); Il name age (pays)
                 console. log (Obj [i]; Il John 25 (value)
```

```
Hepsion wing for of method:
object, values (0) :-
 for (1 of Objects , values (Obj)) {
        console-log (i); 11 john 25
Objects · Keys (obj) }-
 for (1 of Objects okeys (obj)) {
        console log(i); Il name age
Objects . en ties (obj) :-
 for ( i of Object + entires (obj)) {
       console log(i); [[ ['name', ijohn']
                              11 [ lage 1, 25]
 for ([i, s] of Objects entries (obj)) {
    console 109 (i, j) / name john age 25
Api object Heading! -
  Vas Obj = [
           Il fake Store API
   Vag H=[];
   for (let i in obj){
          Hopush (Obj [i] ["id"]);
    coasoleolog (id);
```