**Javascript Object oriented Programming**

// OOPS PROGRAMMING

//Object:Expect Primitive types(string,boolean,number,null,undefined,symbol), All are objects in Javascript.

// Javascript Can have properties And methods.

//Defination:

// Object is a non-primitive data type in JavaScript. It is like any other variable,

//the only difference is that an object holds multiple values in terms of properties and methods.

//Properties can hold values of primitive data types and methods are functions.

//creating emptyobject: var car={};

// creating object:

// We can Create an object in number of ways

// 1. using object literal notation 2. using Constructor 3. using object.create();

1.

var Car={

name:'BMW',

year:'2018',

details:function(){

console.log(this.name + ' - ' +this.year + ' - ' + this.owner); // LITERAL NOTATION

}

};

Car.name | Car['name'] // Two ways of Accessing object property

Car.owner="suresh"; // Add property to 'Cars' object

delete Car.year; // Delete Propery From Object

Car.details();

// Output: BMW - 2018

// in above 'name','year' are properties And 'details' is a methods. And 'Car' is an object.

//2. using Constructor

var person=new Object(); // Object Creation using Constructor Function

// Attach properties and methods to person object

person.age=20;

person.name="rajesh";

person["address"]="hyderabad";

person.getDetails=function(){

return console.log(this.name + " - " + this.address); // Attaching method

}

person.getDetails(); // Accessing method

//Accessing proprties And Methods

person.age; // 20

person.name; // rajesh

person.getDetails(); // rajesh - hyderabad

//hasOwnProperty():

//if we are trying to access properety does not exist in the object it returns "undefined".

// then we can use "hasOwnProperty()" method

console.log(person.salary); // output: undefined

console.log(person['age']); // Another way of Accessing property of object

if(person.hasOwnProperty('salary')){

console.log(person.salary);

}

else{

console.log('no salary property');

}

//Access Object keys

for(var key in person){ // key or i

console.log(key); // output: age name address getDetails

console.log(person[key]) // output 20 rajesh hyderabad [Function]

}

// Creating Costructor function

var Hotelinfo=function(name,address,price){

this.name=name;

this.address=address;

this.price=price;

}

Hotelinfo.prototype.country=function(){

console.log(this.name);

}

var hotel=new Hotelinfo('hayathpark','hyderabad',2000);

console.log(hotel.address); // o/p: hyderabad

console.log(hotel.country());

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