# Declare JavaScript Objects as Variables

var car = {

"wheels":4,

"engines":1,

"seats":5

};

# Construct JavaScript Objects with Functions

var Car = function() {

this.wheels = 4;

this.engines = 1;

this.seats = 5;

};

# Make Instances of Objects with a Constructor Function

To use a constructor function we call it with the newkeyword in front of it like:

var Car = function() {

this.wheels = 4;

this.engines = 1;

this.seats = 5;

};

var myCar= new Car();

myCar is now an instance of the Car constructor that looks like the object it described:

{  
  wheels: 4,  
  engines: 1,  
  seats: 5  
}

In the editor, use the Car constructor to create a new instance and assign it to myCar.

Then give myCar a nickname property with a string value.

var myCar= new Car();

myCar.nickname="St.";

# Make Unique Objects by Passing Parameters to our Constructor

The constructor we have is great, but what if we don't always want to create the same object?

To solve this we can add parameters to our constructor. We do this like the following example:

var Car = function(wheels, seats, engines) {  
  this.wheels = wheels;  
  this.seats = seats;  
  this.engines = engines;  
};

Now we can pass in arguments when we call our constructor.

var myCar = new Car(6, 3, 1);

# Sort Arrays with sort

var array = [1, 12, 21, 2];

// Only change code below this line.

array.sort((a,b)=>{

return b-a; //giảm dần

return a -b; //tăng dần

});

# Reverse Arrays with reverse

Array.reverse(); //đảo ngược chuỗi

# Concatenate Arrays with concat

concat can be used to merge the contents of two arrays into one.

var array = [1,2,3,4,5,6,7];

var newArray = [];

// Only change code below this line.

newArray = array.reverse();

# Split Strings with split | Jion String with join

You can use the split method to split a string into an array.

var string = "Split me into an array";

var array = [];

// Only change code below this line.

array = string.split(' ');

* ["Split","me","into","an","array"]

array = string.split('an');

* ["Split me into “,” array"]

# 2- [BASIC ALGORITHM SCRIPTING](https://www.freecodecamp.org/map#nested-collapseBasicAlgorithmScripting)

# Reverse a String

function reverseString(str) {

return str.split('').reverse().join('');

}

reverseString("hello I'm beginner");