

JavaScript Datatypes Demonstartion

- JavaScript is a dynamic type language, means you don't need to specify type of the variable because it is dynamically used by JavaScript engine.
- There are two types of data types in JavaScript.
 - Primitive data type
 - Non-primitive (reference) data type
- JavaScript has dynamic types. This means that the same variable can be used to hold different data types.

No	Data Type Name	Description	Example
9	Object	<ul style="list-style-type: none">It is used to store collections of data and more complex entities.An object can be created using curly braces {} with zero or more properties.Each property is a key-value pair.Do Not Declare Strings, Numbers, and Booleans as Objects. They complicate your code and slow down execution speed.Spaces and line breaks are not important. An object definition can span multiple lines.Objects are used to store data in a structured way.They can be used to create reusable code.They can be used to create complex data structures.They are collections of key-value pairs, which are used to store and access data.Objects are similar to arrays, but instead of using indexes to access data, they use keys.Keys can be strings, numbers, or symbols. Values can be any data type, including objects.Objects are declared using curly braces, and the key-value pairs are separated by commas. Keys are always followed by a colon and values can be followed by a comma.To access the values stored in an object, we use dot notation. We can also use bracket notation, which is similar to array notationIt is a common practice to declare objects with the const keyword.Objects are variables too. But objects can contain many values.Properties : The name:values pairs in JavaScript objects are called Properties.Methods : They are actions that can be performed on objects. They are stored in properties as function definitions. Objects can also have methods. They are used to add functionality to objects, and are used in a similar way to functions. They can be used to access and manipulate the properties of an object, and to create new objects. Object methods are defined using the method() syntax. They can be used on any object, and can be called using the object.method() syntax.	<pre>const person = { firstName: "John", lastName: "Doe" };</pre>

Object

This is an example 1 of Object - Object Definition:

Eg: let objDemo = {year : 2024, class : master, name : Manoj };

The object is : [object Object] and the type is : object

This is an example 2 of Object - Spaces and line breaks are not important. An object definition can span multiple lines.

Eg:

```
let objDemo = {
  year : 2024,
  class : master,
  name : Manoj
};
```

This is an example 3 of Object - Accessing Object Properties.

The Object is : objDemo = {year : 2024, class : master, name : Manoj };

You can either access using below syntax :

```
objectName.propertyName
or
objectName["propertyName"]
```

Syntax with objectName.propertyName (Property Access)

Accessing the property class : master

The Type is : string

This is an example 4 of Object - Accessing Object Properties.

The Object is : objDemo = {year : 2024, class : master, name : Manoj };

You can either access using below syntax :

```
objectName.propertyName
or
objectName["propertyName"]
```

Syntax with objectName[propertyName] (Property Access)

Accessing the property class : master

The Type is : string

This is an example 5 of Object - Properties can be added to an object by using dot notation or bracket notation.

The Object is : objDemo = {year : 2024, class : master, name : Manoj };

Property myStatus added . Accessing the value of myStatus in object objDemo is : true

This is an example 6 of Object - Objects Methods (String Interpolation Example). A method is a function stored as a property.

The Object is : objDemo = {year : 2024, class : Master, name : Manoj , fullStrRes : function(){ var streturn = `The Rank secured in the year \${this.year} by \${this.name} is \${this.class} ` } };

After object execution: Accessing Object Method and the result is below :

The Rank secured in the year 2024 by Manoj is Master.
