

Pre-Read

Data Structure : Arrays and Objects (Part 1)



Basics of Data Structures: Objects (Pre-read)

- Let me introduce you to Basics of Data Structure by the use of objects, Object in Javascript is an entity with properties and methods associated with it. These objects have properties in the form of "key: value" pairs; here, the key is a string which can also be referred to as property name, and value can be anything (e.g. string, number, null, Array, function, etc.).
- Everything in Javascript is an object excluding the primitive data types, including number, string, boolean, null, and undefined.

How to create Objects in Js?

Objects can be created in more than one way in javascript, but we will learn them later as the classes progress and for now focus on understanding the simplest possible approach.

- **Object Literal:** The easiest and the most common way of creating an object is using Object Literals.
- **Function:** new keyword is used to create an object

Why is it important?

Object is highly useful in Code Optimization, It optimizes the code so that we can get and store data quickly using key.

What is the use of Objects in Data structure?

- An Object is used to hold the property of the particular Object,

Let us consider Car and it has a lot of properties such as color, speed, model, brand etc.. Here we can store this entire property in a car object

What is Declaration, Creating, Initializing, in an Object ?

An Object can be declared as follows:

```
const car = { color: 'blue', brand: 'Audi' }
```

```
const car = new Object({ color: 'blue', brand: 'Audi' })
```

What will we be doing in class?

We will be learning about objects, then create a program on Jscript.

1. Jscript Code for Create an object car and define their property
2. JavaScript practice program to iterate the object and log the object by framing the meaningful sentence