**JavaScript(2021-01-15)**

1)Objects in JavaScript

* Arrays, Functions, Objects, Dates is an object.
* Objects interacting with one another through methods and properties.
* Used to store data, structure applications into modules and keeping code clean.
* Object is a collection of related data or functionality in the form of key. The functionalities are usually consists of several functions and variables. All JavaScripts values are object except primitives.
* A constructor is a function that initializes an object .
* Inheritance is a parent child concept means suppose we create one constructor function and create an object with that constructor function then that object uses the property and method of constructor function.
* Every javascript object has a prototype property which makes inheritance possible in JavaScript.
* The prototype property of an object is where we put methods and properties that we want other objects to inherit.
* The Constructor’s prototype property is NOT the prototype of the constructor itself , it’s the prototype of ALL instances that are created through it.
* When a certain method(or property) is called , the search starts in the object itself , and if it cannot be found , the search moves on to the object’s prototype. This continues until the method is found: prototype chain.

2)Ways of creating an object

* Object.create() inherits directly from the one which we pass into the first argument while the function constructor inherits from the prototype property.

3)Object v/s Primitive

* The variable containing primitives hold that data inside the variable itself while variables associated with objects do not actually contains the object but instead contains a reference in the memory where that object sits or stored.

4)Functions

* Functions are also objects in JavaScript. A function is instance of an object type so it behaves like any other object.
* We can store functions in a variable. We can pass a function as an argument to another function and also return a function from a function. So in JavaScript we have First Class Functions.