**Task 3 – 19.feb.24 – JEYAKRISHNAN R**

**1.Possible ways to create objects in JS**

* Create Objects in JavaScript Using the ‘new’ Keyword with the’ in-built Object Constructor Function.
* Create Objects in JavaScript Using ‘new’ with a User-Defined Constructor Function.
* Create Objects in JavaScript Using Object.create() to Create New Objects.

**2.Prototype chain**

Prototypes are the means of inheritance in JavaScript. The prototype of an object would also have a prototype object. This continues until we reach the top level when there is no prototype object.

This is called ***prototype chaining***or ***prototype chain in JavaScript***.

**3.Call ,Apply and Bind**

1. **Call( )**: The call() method invokes a function with a given 'this' value and arguments provided one by one. This means that we can call any function, and explicitly specify what 'this' should reference within the calling function.
2. **Apply( )**: Invokes the function and allows you to pass in arguments as an array.
3. **Bind()**: returns a new function, allowing you to pass in an array and any number of arguments

**4.JSON**

## **JSON** is an acronym for JavaScript Object Notation, is an open standard format, which is lightweight and text-based, designed explicitly for human-readable data interchange. It is a language-independent data format.

## **Properties of JSON**

* Simplicity
* Openness
* Self-Describing
* Internationalization
* Extensibility
* Interoperability

**5.arraySlice()**

* The slice() method returns selected elements in an array, as a new array.
* The slice() method selects from a given start, up to a (not inclusive) given end.
* The slice() method does not change the original array.

**6.arraySplice()**

* The splice() method adds and/or removes array elements.
* The splice() method overwrites the original array.

**7.Difference b/w arrayslice() and arraySplice()**

The splice() method

* returns the removed items in an array.

The slice() method

* returns the selected element(s) in an array, as a new array object.

The splice() method

* changes the original array but

slice() method

* doesn’t change the original array.