ES6 Features

1.LET, VAR, CONST

The let keyword allows you to declare a variable with block scope.

The const keyword allows you to declare a constant

Constants are similar to let variables, except that the value cannot be changed.

var declarations are globally scoped or function scoped while let and const are block scoped. var variables can be updated and re-declared within its scope; let variables can be updated but not re-declared; const variables can neither be updated nor redeclared

2.CLASS

Class are the templates or blueprint for the objets created. classes are the special type of functions. We can define the class just like function declarations and function expressions.

3.OBJECTS

A javaScript object is an instance of class that entity having state and behavior (properties and method).

4.INHERITENCE

The JavaScript inheritance is a mechanism that allows us to create new classes on the basis of already existing classes.exixting class is called super class and new class is sub class.

We use extends keyword to inherit the properties of existings class to the new class

5.CONSTRUCTOR

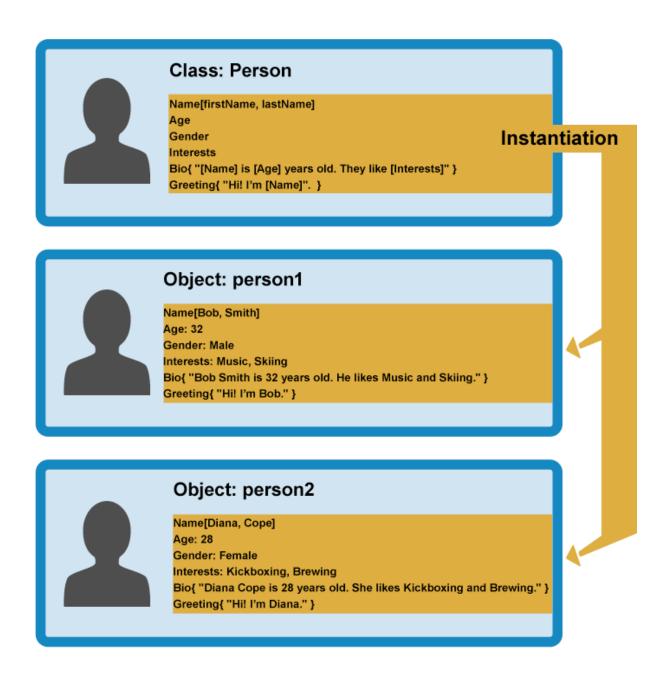
JavaScript constructor method is a special type of method which is used to initialize and create an object.

The constructor keyword is used to declare a constructor method.

6.DELEGATION

Delegation means that you use an object of another class as an instance variable, and forward messages to the instance.

Passing reference of the object created.



The ability of multiple object types to implement the same functionality is polymorphism.

SAMPLE EXAMPLE:

INHERITENCE EXAMPLE:

```
class Area {
   constructor(base,height){
      this.base = base
      this.height = height
}
```

```
triangleArea(){
  let result=(this.base*this.height)/2
  console.log(`Area of Triangle is ${result}`);
}
}
class Perimeter extends Area {
     constructor(base,height,length,breadth){
        super(base,height)
           this.length=length
           this.breadth=breadth
     }
rectanglePerimeter(){
    let resultRect= this.length*this.breadth;
     console.log(`Perimeter of rectangle is ${resultRect} `)
}
}
  let obj = new Perimeter(10,20,30,40);
  obj.triangleArea();
  obj.rectanglePerimeter();
LET VAR CONST EXAMPLE:
let city = "USA";
{
  let name = "india";
  console.log(name); // "india";
  const area="germany";
  console.log(area);//"germany"
}
console.log(city); // "USA"
EXAMPLE FOR CLASS AND OBJECT:
class Car {
    constructor(name, year) {
      this.name = name;
      this.year = year;
   }
  }
```

```
myCar = new Car("Ford", 2014);
console.log( myCar.name + " " + myCar.year)
```