

1) Let example

```
<!DOCTYPE html>
<html>
<body>

<h2>Redeclaring a Variable Using let</h2>

<p id="demo"></p>

<script>
let x = 10;
var y=20;
console.log(window.x);//let does not attached
console.log(window.y);// get attached to windows object
// Here x is 10
//we cannot redeclare it let
//var can be re declare no error
{
  let x = 2;
  // Here x is 2
}

// Here x is 10
document.getElementById("demo").innerHTML = x;
</script>

</body>
</html>
```

2) Const example

```
<!DOCTYPE html>
<html lang="en">
<head>

</head>
<body>
  <h1>const check </h1>
  <script>
    const x= "junaaid";
    console.log(x);
    x="khan";//this cannot be done it will give error
    // as x is constant check in console error msg
    console.log(x);
  </script>
```

```
</body>
</html>
```

3) default parameter example

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <h1> default parameter

  </h1>
  <script>
    function add(x,y){
      z= x+y;
      return z;
    }
    console.log(add(5,5));
    function add1(x,y=20){
      z= x+y;
      return z;
    }
    console.log(add1(5));
  </script>
</body>
</html>
```

4 function rest parameter

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
<h1>
```

```

    rest parameter
</h1>
<script>
    function sum(...args){
        let result=0;
        //normal for loop
        for (i=0;i<args.length;i++){
            result=result+args[i];
        }
        return result;
    }
    console.log(sum(20,30,40,50));
    function sum2(...args){
        let sum=0;
        for(let s of args){
            sum += s;
        }
        return sum;
    }
    let p=sum2(20,30);
    console.log(p);
</script>
</body>
</html>

```

5 . Spread operator

```

<!DOCTYPE html>
<html lang="en">
<head>

</head>
<body>
    <h1>spread operator</h1>
    <script>
        let x=[1,2,3,4,5];
        let y =[...x,6,7,8];
        console.log(y);
    </script>
</body>
</html>

```

6 . for of loop

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <h1>for of example</h1>
  <script>
    let p=["junaid","sam","sonu","abdullah"];
    for(let x of p){
      console.log(x);
    }
  </script>
</body>
</html>
```

7 . Template Literals

```
<!DOCTYPE html>
<html lang="en">
<head>

</head>
<body>
  <h1>template literal</h1>
  <script>
    let x="hi this is junaid double quotes";
    let y='hi this is junaid single quotes';
    let z=`hi this is junaid back tick`;
    //multiline can be used
    let p=`This text
      can
      span multiple lines`;
    console.log(x);
    console.log(y);
    console.log(z);
    console.log(p);
```

```
    </script>
</body>
</html>
```