

## Description of HTML File

- HTML File:
  - `<!DOCTYPE html >` specifies that the file is html5 document.
  - `<html lang = "en" >` defines that everything you are writing in English.
  - Meta tags give information about your HTML page. It is for browser understanding.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>

</body>
</html>
```

- we should link javascript file at the end of the body tag using the script element.

```
<body>
  <script src="second.js"></script>
</body>
</html>
```

## Loops

- Loops are used in javascript to perform repeated tasks based on condition.

### Syntax

```
loop(condition)
{
  //code
}
```

- To use loops there are three keywords available i.e., for, while, do-while.

## while:

### Example

```
var num = 1;
while( num < 5 )
{
    console.log ( num );    //1 2 3 4
    num = num + 1;
}
```

## for:

### Example:

```
var num;
for ( num = 1; num <= 10; num++)
{
    console.log ( num );    //1 2 3 4 5 6 7 8 9 10
}
```

## do-while:

### Example:

```
var num = 1;
do {
    console.log ( num );    //1
    num = num + 1;
} while ( num > 5 );
```

## pre and post-increment:

```
var num = 1;
var a = num++; //post increment
var b = ++num;  //pre increment
console.log ( a , num ); // 1 2
console.log ( a , num ); // 2 2
```

## Arrays

**Arrays is a collection of data of same data type.**

**Syntax:** `var variable_name = [ ] ;` **//declaration of array**

- An array is used to store the collection of data
- Index number in an array starts from 0.

### Example:

```
var arr = [ 2 , 56 , 65, 1, 6 ];
console.log ( arr[0] );    //2
console.log ( arr[2] );    //65
```

- `Array_name.length` is used to find the length of the array.