## Types of loops:

```
For loop
```

Tor in

For of

**While** 

To-while

## For loop:

---> syntax of the for loop:

```
For(initialization; condition; update-expression){
----block of code
```

#### Ex:

```
<script>
   for(let i=0;i<=5;i++){
        console.log(i);
        document.write(i+"</br>");
```

# Output: 0 1 2 3 4 5 Ex:2: <script> for(let i=2;i<=9;i=i+2){ console.log(i+3); document.write(i+3,"</br>"); } </script> Output: 5 7 9 11 //initialization:2+3=5 Then 2increment with 4 and 4<=9 and then it prints 4+3= 7

Then 4 increment with 6 and 6<=9 and then it prints 6+3 =9

Then 6 increment with 8 and 8<=9 and then it prints 8+3 =11

Then 8 increment with 10 but 10!<=9 then loop breaks or stops.

Print the 9th table using for loop:

#### Output:

For in:

Example:

Output:

Karna

For of:

```
<script>
    const a=["malli","yash","nani","gopi"]
    for(let i of a){
        document.write(i+"</br>
}
</script>
```

Output:

Malli

```
Yash
Nani
Gopi
While:
Syntax:
While(condition){
---block of code
Example:
 <script>
     let i=1,n=5;
     while(i<=n){
         document.write(i+"</br>")
         i++
 </script>
```

## Output:

1

2

3

4

5

#### Ex:2

```
<script>
    let i=2,n=8;
    while(i<=n){
        document.write(i+1+"</br>")
        i=i+2
    }
</script>
```

## Output:

3

5

7

9

#### Do-while:

## Example:

```
    let i=1,n=8;
    do{
        document.write(i+1+"</br>")
        i=i+2
    }
    while(i<=n){
    }
</script>
```

## Output: