



ITERATIONS

do-while

```
var i = 0;
do
{
  console.log("Hello World");
  i++;
}while(i<5);</pre>
```

while

```
var i = 0;
while(i<5)
{
  console.log("Hello World");
  i++;
}</pre>
```

for

```
for(var i = 0;i<5;i++)
{
  console.log("Hello World");
}</pre>
```

Loops with Arrays





Without Loop



```
var a = [10,20,30,40,50,60];

console.log(a[0]);
console.log(a[1]);
console.log(a[2]);
console.log(a[3]);
console.log(a[4]);
console.log(a[5]);
```

do-while loop

```
var a = [10,20,30,40,50,60];

var i = 0;
do
{
   console.log(a[i]);
   i++;
}while(i<6);</pre>
```

while loop

```
var a = [10,20,30,40,50,60];

var i = 0;
while(i<a.length)
{
   console.log(a[i]);
   i++;
}</pre>
```



for loop



```
var a = [10,20,30,40,50,60];
for(var i = 0;i<6;i++)
{
   console.log(a[i]);
}</pre>
```

for-in loop

```
var a = [10,20,30,40,50,60];
for(var i in a)
{
   console.log(a[i]);
}
```

for-of loop

```
let a = [10,20,30,40,50,60];
for(let v of a)
{
  console.log(v);
}
```





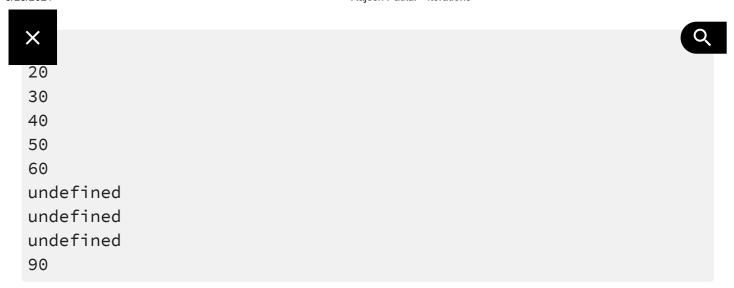
```
var a = [10,20,30,40,50,60];

a[9] = 90;
for(var i in a)
{
   console.log("i = "+i);
   console.log("a["+i+"] = "+a[i]);
}
```

```
i = 0
a[0] = 10
i = 1
a[1] = 20
i = 2
a[2] = 30
i = 3
a[3] = 40
i = 4
a[4] = 50
i = 5
a[5] = 60
i = 9
a[9] = 90
```

for..of

```
var a = [10,20,30,40,50,60];
a[9] = 90;
for(var v of a)
{
  console.log(v);
}
```



LINEAR SEARCH

do-while

```
let a = [10,20,30,40,50,60];
let b = 10;
let i = 0;
let flag = false;
do
  if(b == a[i])
  {
    console.log("Number is Found");
    flag = true;
    break;
  i++;
}while(i<a.length);</pre>
if(flag == false)
{
  console.log("Sorry Number is Not Found :(");
}
```







```
let a = [10,20,30,40,50,60];
let b = 10;
let i = 0;
let flag = false;
while(i<a.length)</pre>
{
  if(b == a[i])
  {
    console.log("Number is Found");
    flag = true;
    break;
  }
  i++;
}
if(flag == false)
{
  console.log("Sorry Number is Not Found :(");
}
```





```
let a = [10,20,30,40,50,60];
let b = 10;
let i = 0;
let flag = false;
for(let i=0;i<a.length;i++)</pre>
{
  if(b == a[i])
  {
    console.log("Number is Found");
    flag = true;
    break;
  }
}
if(flag == false)
{
  console.log("Sorry Number is Not Found :(");
}
```

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