

Repeating Code Examples

```
for (statement 1; statement 2; statement 3)  
{  
    code block to be executed  
}
```

statement 1 is executed (one time) **before** the block of code is executed.

statement 2 defines the condition for executing the code block.

****If condition is true**, code block executed.

statement 3 is executed (every time) **after** the code block has been executed.

```
<script>
```

```
for (i = 0; i < COUNT; i++)
```

```
{
```

```
    Repeat the code inside this curly braces COUNT times;
```

```
}
```

```
</script>
```

<script>

i++ same as i = i + 1



var text = "";

var i;

for (i = 0; i < 5; i++)

{

text += "The number is " + i + "
";

}

document.getElementById("demo").innerHTML = **text**;

</script>

text += i same as text = text + i



```
<script>
```

```
var text = "";
```

```
var i;
```

```
for (i = 0; i < 5; i+1)
```

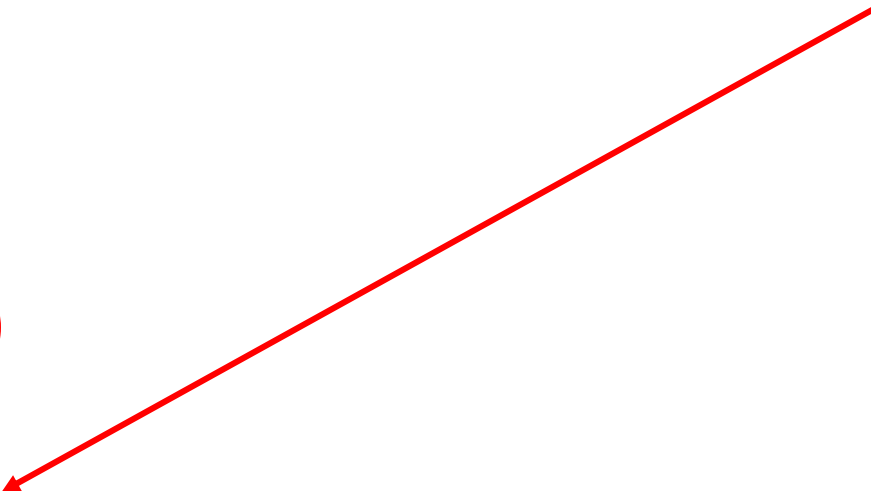
```
{
```

```
    document.write( i + "Print whatever you want here");
```

```
}
```

```
</script>
```

REMINDER: Use for testing, Output to the HTML document



Use a for loop to **ITERATE** (go through) an array.

	0	1	2	3	4
brightestStars	brightestStars[0]	brightestStars[1]	brightestStars[2]	brightestStars[3]	brightestStars[4]
	Sirius	Canopus	Arcturus	Rigel	Vega

for statement that iterates through the array to print the contents of the **brightestStars** [array].

```
var brightestStars = [ ];  
var brightestStars[0] = "Sirius";  
var brightestStars[1] = "Canopus";  
var brightestStars[2] = "Arcturus";  
var brightestStars[3] = "Rigel";  
var brightestStars[4] = "Vega";
```

```
for (var count = 0; count < brightestStars.length; count++)
```

```
{
```

```
    document.write(brightestStars[count] + "<br/>");
```

```
}
```

1. Initialize array.

2. Assign values to array.

**3. Use a for loop
to iterate
through the
array.**

while statement that iterates through the array to print the contents of the **brightestStars** [array].

```
var brightestStars = [ ];
var brightestStars[0] = "Sirius";
var brightestStars[1] = "Canopus";
var brightestStars[2] = "Arcturus";
var brightestStars[3] = "Rigel";
var brightestStars[4] = "Vega";

var count = 0
while (count < brightestStars.length)
{
    document.write(brightestStars[count] + "<br/>");
    count = count + 1;
}
```

1. Initialize array.
2. Assign values to array.
3. Initialize count as a counter.
4. Use a while loop to iterate through the array.