For and While Loops

These exercises are designed to help you understand more about for loops, try to do them without looking at the solution.

Once you are done try to do the same exercises with a while loop

- 1- Use a for loop to print "Hello world" 10 times.
- 2- Write a program that will print out the multiplication table of 6 from 0 to 20 (use a for loop)
- 3- Write a for loop to print the numbers from 0 to 10 in reverse order (10,9,8,7,6,5,4,3,2,1)
- 4- Use a for loop to print the sum of the number between 40 and 100.
- 5- Write a program to iterate through an array to find the greatest number. To do so use a temporary variable you can call it "max" (since it represents the greatest value of the array) and assign it the value stored in array[i] (with 0<i<array.length) and comparing it to the next element of the array, if max<array[i] assign the value stored in array[i] to max.

Solution:

For loops:

Exercise 1:

```
for(int i=0;i<10<i++){
    console.log("hello world");
}</pre>
```

Exercise 2:

```
for(int i=0;i<=20;i++){
   var multiplication= 6*i;
}</pre>
```

Exercise 3:

```
for(int i=10;i>=0;i--){
    console.log(i);
}
```

Exercise 4:

```
var sum=0;
for(int i=40;i<=100;i++){
    sum+=i;
}</pre>
```

Exercise 5:

```
var array[23,12,56,34,2];
var max=0;
for(int i=0;i<array.length;i++){
    if(max<array[i]){
        max=array[i];
    }
}</pre>
```

While loop:

Exercise 1:

```
var i=0;
while(i<10){
    console.log("hello world");
    i+++;
}</pre>
```

Exercise 2:

```
var i=0;
while(i<=20){
    var multiplication= 6*i;
    i++;
}</pre>
```

Exercise 3:

```
var i=10;
while(i>=0){
    console.log(i);
    i--;
}
```

Exercise 4:

```
var i=40;
var sum=0;
while(i<=100){
    sum+=i;
    i++;
}</pre>
```

Exercise 5:

```
var array[23,12,56,34,2];
var max=0;
var i=0;
while(i<array.length){
    if(max<array[i]){
        max=array[i];
    }
    i++;
}</pre>
```