**Subject**: Web Development **Lesson**: Javascript Loops

**Class**: Grade 10 & 11 **Time**: 2 Sessions (100 minutes)

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**Purpose of the Lesson:**

The main purpose of this lesson is to demonstrates the different types of loops in javascript.

**Objectives**:

After completing this lesson, you will:

1. Learn about the different types of loops
2. Understand how to use Do/While Loop.
3. Understand how to use While Loop.
4. Understand how to use For Loop.

**Terms:**

Loops, Do While, While, For.

**Session:**

1. Define Loops.

The for statement creates a **loop** that is executed as long as a condition is true. The**loop** will continue to run as long as the condition is true. It will only stop when the condition becomes false. **JavaScript** supports different kinds of **loops**: for - **loops**through a block of code a number of times.

1. Define Do/While loop.

The do/while loop is a variant of the while loop. This loop will execute the code block once, before checking if the condition is true, then it will repeat the loop as long as the condition is true.

<https://www.w3schools.com/js/js_loop_while.asp>

do {  
   *code block to be executed*  
}while (condition)

1. Define While loop.

The while loop loops through a block of code as long as a specified condition is true.

<https://www.w3schools.com/js/js_loop_while.asp>   
while (condition) {

*code block to be executed*

}

1. Define For Loop.

The for loop is often the tool you will use when you want to create a loop.

for (condition) {

*code block to be executed*

}

**Exercise 1:**

1-Using for loop create a program that print the numbers from 1 to 100.

2- Using for loop create a program that print the numbers from 100 to 1.

3- Using for loop create a program that print the odd numbers from 1 to 100.

**Exercise 2:**

1. Using for loop create a program that print the sum of numbers from 1 to 100.
2. Using for loop create a program that print the sum of even numbers from 1 to 100.