# JavaScript Syntax and Operators – Plan

## Objective

To get familiar with the basic syntax, variables, loops and operators.

## Motivation

Check basic knowledge of the students so far. Evaluate how much they understood the material so far, no matter the language they came from. Show students from other languages the basic syntax in js.

## Content

### JavaScript Syntax

* Values
  + Fixed values and variable values
  + Examples
* Literals
  + Numbers – work for integer numbers and floating-point; Give examples
  + Strings – text written within single or double quotes; Give examples
* Variables
  + Definition for a variable
  + Example of declaring variables
* Operators
  + Arithmetic operators ( + - \* / ) – examples
  + Assignment operators ( = ) – examples
* Expressions
  + Definition
  + Examples

### JavaScript Operators

* Comparison Operators
  + == equal to
  + === equal value and equal type
  + != not equal
  + !== not equal value or not equal type
  + > greater than
  + < less than
  + >= greater than or equal to
  + <= less than or equal to
  + ? ternary operator
* Logical Operators
  + && logical and
  + || logical or
  + ! logical not
* Type Operators
  + typeof - Returns the type of a variable
  + instanceof - Returns true if an object is an instance of an object type

### Exercise

Problems with with simple calculations and using different data types, if-else statements

## Exam