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# **Worksheet 1**

# **SYST10199 Web Programming**

### **Problem**

Calculate and display in console the first 5 Fibonacci numbers. Display in the console.

### Solution

### **Exercises**

- 1. Implement the above solution using a valid HTML document. Include proper comments to explain what the code does.
- 2. What happens when we use let instead of var?

```
let n = 5, tmp;
let pre = 0, cur = 1;
```

### https://www.w3schools.com/js/js let.asp

- ES2015 introduced two important new JavaScript keywords: let and const.
- These two keywords provide Block Scope variables (and constants) in JavaScript.
- Before ES2015, JavaScript had only two types of scope: Global Scope and Function Scope.

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3. What happens when we use const instead? Produce the following errors and describe the situation. Use standard paragraph for each.

```
// Error: Missing initializer in const declaration
// Error: Assignment to constant variable.
```

4. Add and compare the outputs:

```
console.log(i+2 + ": " + cur);
console.log("F" + (i+2) + ": " + cur);
console.log("F" + i+2 + ": " + cur);
```

# **Explore the tutorials:**

- 1. Javascript Syntax: https://www.w3schools.com/js/js\_syntax.asp
  - Values, Literals, Variables, Operators, Expressions, Keywords, Comments, Identifiers,
     Case Sensitive, Camel Case, Character Set
- 2. Javascript Variables: https://www.w3schools.com/js/js\_variables.asp
- 3. Javascript Type conversion: https://www.w3schools.com/js/js\_type\_conversion.asp
- 4. Javascript Strict Mode: https://www.w3schools.com/js/js\_strict.asp
  - You can use strict mode in all your programs. It helps you to write cleaner code, like preventing you from using undeclared variables.

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