

BSc (Hons) in Information Technology
Specializing in Software Engineering
Year 3 - 2021
SE3040 – Application Frameworks
Lab 01

Objective: Teach a set of basic concepts in the JavaScript programming language.

Prerequisites: Students should have basic JavaScript knowledge.

1. Create a function as a variable (function expression) that prints 'Hello World' to console and another function that accepts a variable. The argument passed to the second the function should be executed as a function inside the body. Call the second function passing the first function as the argument. Check the output.
2. Use curly brackets to create JSON like JavaScript object and add properties and functions to the object.
3. Understand the **'this'** keyword in JavaScript.
 - a. Declare a global variable named *vehicleName* in the window object.
 - b. Declare a method named *printVehicleName* to print out the vehicle name.
 - c. Declare an object named *Vehicle* (using object literal notation) which have a variable called *vehicleName* and declare a function named *getVehicleName* and assign it with the *printVehicleName*.
 - d. Execute the *printVehicleName* function and the *getVehicleName* functions to see the results.
 - e. Correct the *getVehicleName* to print out the global variable *vehicleName* using the *this* keyword
4. Create a separate function using JavaScript **closure** which accepts the tax percentage and returns a function that accepts the amount and returns the amount after adding tax percentage. Try adding tax percentage to **'this'** object and check if it works.
5. Write a function to call JSON Placeholder API (<https://jsonplaceholder.typicode.com/posts>) and get users and return the users to the caller.