

# Task 1: Basic Syntax and DOM Manipulation

**Level:** Beginner

## Description:

Create a simple JavaScript application that processes user input for their name, age, and whether they are a student. The application should display a personalised message based on the input. Additionally, implement a function to toggle a boolean value for a separate task.

## Objective:

Implement basic JavaScript concepts including variables, data types, conditional statements, loops, and functions.

## Pre-requisites:

- Understanding of basic JavaScript (variables, data types, functions)
- Familiarity with conditional statements
- Knowledge of loops

## Concepts Covered:

- Variables and data types
- Conditional statements
- Loops

## Instructions:

1. Define variables to store the user's name, age, and student status.
2. Create a function to generate a personalised message based on the input values.
3. Use conditional statements to check if the user is a student and create a personalised message.
4. Use a loop to repeat the personalised message based on the user's age (if age is less than or equal to 10, repeat the message that many times).
5. Implement a function to toggle a boolean value.

## Example Input:

Set 1:

- Name: "Alice"
- Age: 5
- Is Student: true

Set 2:

- Name: "Bob"
- Age: 15

- Is Student: `false`

Set 3:

- Name: `"Charlie"`
- Age: `8`
- Is Student: `true`

### **Expected Output:**

Set 1:

`"Hello, my name is Alice and I am a student."`

`"Hello, my name is Alice and I am a student."`

`"Hello, my name is Alice and I am a student."`

`"Hello, my name is Alice and I am a student."`

`"Hello, my name is Alice and I am a student."`

Set 2:

`"Hello, my name is Bob."`

Set 3:

`"Hello, my name is Charlie and I am a student."`

`"Hello, my name is Charlie and I am a student."`

`"Hello, my name is Charlie and I am a student."`

`"Hello, my name is Charlie and I am a student."`

`"Hello, my name is Charlie and I am a student."`

`"Hello, my name is Charlie and I am a student."`

`"Hello, my name is Charlie and I am a student."`

`"Hello, my name is Charlie and I am a student."`

## GitHub Instructions

### 1. Open in Visual Studio Code:

- After clicking on the "Open in Visual Studio Code" button from the GitHub Classroom confirmation page, Visual Studio Code (VSCode) will open the repository directly.
- If prompted, select "Open" or "Allow" to open the repository in VSCode.

### 2. Open the Terminal in VSCode:

- In VSCode, open a terminal by selecting Terminal > New Terminal from the top menu.

### 3. Create Your Directory:

In the VSCode terminal, navigate to the tasks/student directory:

```
Unset  
cd tasks/student
```

Create a new directory with your GitHub username (replace your-username with your actual GitHub username):

```
Unset  
mkdir your-username cd your-username
```

### 4. Create a Directory for the Task:

Create a new directory for the task, e.g., task1:

```
Unset  
mkdir task1 cd task1
```

### 5. Complete the Task:

- In VSCode, create a new file named index.js in your task1 directory and Write your solution in the index.js file.

## 6 . Run and Test Your Code:

In the VSCode terminal, navigate back to the root directory of the repository:

```
Unset  
cd ../../../../
```

Run your code to ensure it works correctly. Use the following commands:

```
Unset  
node tasks/student/your-username/task1/index.js "Alice" 5 true  
  
node tasks/student/your-username/task1/index.js "Bob" 15 false  
  
node tasks/student/your-username/task1/index.js "Charlie" 8 true  
  
node tasks/student/your-username/task1/index.js toggle
```

## 7 . Commit Your Changes:

In the VSCode terminal, add your changes to git:

```
Unset  
git add tasks/student/your-username/task1/index.js
```

Commit your changes with a meaningful message:

```
Unset  
git commit -m "Completed task 1"
```

Push your changes to your repository:

```
Unset  
git push origin main
```

## 8. Create a Pull Request:

- Go to your repository on GitHub.
- Click on the "Pull Requests" tab.
- Click the "New Pull Request" button.
- Ensure the base repository is the original template repository and the base branch is main.
- Ensure the head repository is your forked repository and the compare branch is main.
- Click "Create Pull Request".
- Add a title and description for your pull request and submit it.

## Summary of Commands

```
Unset
# Open in Visual Studio Code

# Open terminal in VSCode

# Navigate to the tasks/student directory
cd tasks/student

# Create your own directory and navigate to it
mkdir your-username
cd your-username

# Create a directory for the task and navigate to it
mkdir task1
cd task1

# Complete the task by editing index.js

# Navigate back to the root directory
cd ../../../../

# Run your code
node tasks/student/your-username/task1/index.js "Alice" 5 true
node tasks/student/your-username/task1/index.js "Bob" 15 false
node tasks/student/your-username/task1/index.js "Charlie" 8 true
node tasks/student/your-username/task1/index.js toggle

# Add, commit, and push your changes
git add tasks/student/your-username/task1/index.js
git commit -m "Completed task 1"
git push origin main

# Create a pull request on GitHub
```