

# HW-1: Kilometers to Miles Converter

**Estimated Time: 60 minutes**

## Overview

In this lab, you will create a simple interactive web page that converts a distance value from kilometers (km) to miles (mi). This project will help you practice integrating **HTML** for structure, **CSS** for styling, and **JavaScript** for functionality and interactivity.

You will build a user-friendly interface where users can input a distance in kilometers, click a button to convert it, and see the result displayed dynamically.

## Objectives

By the end of this lab, you will be able to:

- Create and style a simple form with input fields and buttons using HTML and CSS.
- Use JavaScript to capture user input, perform calculations, and update the page content dynamically.
- Practice event handling with JavaScript to respond to user actions.
- Understand basic DOM manipulation to display results.

## Requirements

### Repository Setup

- Create a new **public GitHub repository** named **converter**.
- Add README.md — describing the purpose and usage of your project.
- Add LICENSE
- Clone the repository to your local machine.

## Instructions

Create three files in your local repository:

- index.html
- styles.css
- script.js

### Webpage Functionality

- Input field for kilometers (type number).
- A button labeled “Convert to Miles”.
- Display area for the converted miles value.
- JavaScript function to convert km to miles using:  
 $\text{miles} = \text{kilometers} \times 0.621371$
- Input validation and user-friendly error handling.
- Add clear button

### Styling

- Clean, readable layout using CSS.
- Style form inputs, buttons, and result display.

### Submission

- Push all your files to the converter GitHub repo.
- Email the **GitHub repository link** to [khaled@stu.ttu.edu.jo](mailto:khaled@stu.ttu.edu.jo) for grading.