

### Exercise 1: Temperature Converter

Write a MATLAB program that converts temperature from Celsius to Fahrenheit or from Fahrenheit to Celsius based on user input.

- i. Prompt the user to enter the temperature value and the unit of the temperature (Celsius or Fahrenheit).
- ii. Based on the user's input, perform the appropriate conversion using the following formulas:
  - Celsius to Fahrenheit:  $\text{Fahrenheit} = (\text{Celsius} * 9/5) + 32$
  - Fahrenheit to Celsius:  $\text{Celsius} = (\text{Fahrenheit} - 32) * 5/9$
- iii. Display the converted temperature to the user.

### Exercise 2: Simple Calculator

Write a MATLAB program that acts as a simple calculator. The program should prompt the user to enter two numbers and an operation (+, -, \*, or /) to perform on those numbers. Based on the user's input, the program should perform the operation and display the result.

- i. Prompt the user to enter the first number.
- ii. Prompt the user to enter the second number.
- iii. Prompt the user to enter the operation (+, -, \*, or /).
- iv. Based on the operation entered, perform the appropriate calculation and store the result.
- v. Display the result to the user.