# Mogamat Smith Python Exercise 1

# Explanation of Exercise 1 Python Code

## Question 1: Getting to Know the User

This section asks the user for their name and age using the input() function. The values are stored in variables named 'name' and 'age'. An f-string is then used to print a personalized greeting like: 'Hello, Mogamat! You are 21 years old.'

## Question 2: Calculating the Area of a Rectangle

The user is prompted to enter the length and width of a rectangle. These inputs are converted to integers using int(). The area is calculated by multiplying length by width, and the result is printed using an f-string.

## Question 3: Converting Temperature

This part asks the user to enter a temperature in Celsius, which is stored as a float. The code converts the temperature to Fahrenheit using the formula (C \* 9/5) + 32. The result is rounded to two decimal places using round() and displayed to the user.

# Code Snippets

## Question 1 Code

# Ask the user for their name and store it in a variable  
name = input("What is your name? ")  
  
# Ask the user for their age and store it in a variable  
age = input("How old are you? ")  
  
# Print a greeting using the name and age variables  
print(f"Hello, {name}! You are {age} years old.")

## Question 2 Code

# Ask the user for the length of a rectangle and store it as an integer  
length = int(input("Enter the length of the rectangle: "))  
  
# Ask the user for the width of a rectangle and store it as an integer  
width = int(input("Enter the width of the rectangle: "))  
  
# Calculate the area of the rectangle  
area = length \* width  
  
# Print the result  
print(f"The area of the rectangle is {area} square units.")

## Question 3 Code

# Ask the user for a temperature in Celsius and store it as a float  
celsius = float(input("Enter the temperature in Celsius: "))  
  
# Convert the temperature to Fahrenheit using the formula: (C \* 9/5) + 32  
fahrenheit = (celsius \* 9/5) + 32  
  
# Print the result rounded to two decimal places  
print(f"The temperature in Fahrenheit is {round(fahrenheit, 2)}°F.")