

Week 2 Assignment

Question 1

Prompted the user for their name, age, email, and favorite number, stored the inputs in a dictionary, validated the email format by checking for "@" and ".", and displayed the formatted message.

Question 2

Defined a function `is_even` to check if a number is even by using the modulus operator, then prompted the user for a number and printed whether it was even or odd.

Question 3

Created a function `convert_temperature` to convert temperatures between Celsius and Fahrenheit using the appropriate conversion formulas, then displayed the converted temperature based on user input.

Question 4

Defined a function `find_max_min` to find the maximum and minimum in a list, then collected 5 numbers from the user, stored them in a list, and used the function to display the maximum and minimum values.

Question 5

Collected details for 3 students (name, age, grade) from the user, stored them in a list of tuples and converted this list into a dictionary with student names as keys and (age, grade) tuples as values.

Question 6

Defined a function `update_inventory` to add or remove quantities of items in an inventory dictionary, ensuring quantities don't go below zero, then updated the inventory based on user input for three items and displayed the updated inventory.