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def temperature_converter():
    try:
        value = float(input("Enter the temperature value: "))
        source_unit = input("Enter the source unit (Celsius or Fahrenheit): ").lower()
        target_unit = input("Enter the target unit (Celsius or Fahrenheit): ").lower()

        if source_unit == target_unit:
            print("Error: Source and target units are the same.")
            return

        if source_unit == "celsius" and target_unit == "fahrenheit":
            result = (value * 9/5) + 32
        elif source_unit == "fahrenheit" and target_unit == "celsius":
            result = (value - 32) * 5/9
        else:
            print("Error: Unsupported units.")
            return

        print(f"{value} {source_unit.capitalize()} is equivalent to {result:.2f} {target_unit.capitalize()}")
    except ValueError:
        print("Error: Invalid input. Please enter a valid numeric value for temperature.")

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def length_converter():
    try:
        value = float(input("Enter the length value: "))
        source_unit = input("Enter the source unit (Meters or Feet): ").lower()
        target_unit = input("Enter the target unit (Meters or Feet): ").lower()

        if source_unit == target_unit:
            print("Error: Source and target units are the same.")
            return

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if source_unit == "meters" and target_unit == "feet":
    result = value * 3.28084
elif source_unit == "feet" and target_unit == "meters":
    result = value / 3.28084
else:
    print("Error: Unsupported units.")
    return

print(f"{value} {source_unit.capitalize()} is equivalent to {result:.2f} {target_unit.capitalize()}")
except ValueError:
    print("Error: Invalid input. Please enter a valid numeric value for length.")

def weight_converter():
    try:
        value = float(input("Enter the weight value: "))
        source_unit = input("Enter the source unit (Kilograms or Pounds): ").lower()
        target_unit = input("Enter the target unit (Kilograms or Pounds): ").lower()

        if source_unit == target_unit:
            print("Error: Source and target units are the same.")
            return

        if source_unit == "kilograms" and target_unit == "pounds":
            result = value * 2.20462
        elif source_unit == "pounds" and target_unit == "kilograms":
            result = value / 2.20462
        else:
            print("Error: Unsupported units.")
            return

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        print(f"{value} {source_unit.capitalize()} is equivalent to {result:.2f} {target_unit.capitalize()}")
    except ValueError:
        print("Error: Invalid input. Please enter a valid numeric value for weight.")

def main():
    print("Welcome to Unit Converter")
    print("Supported units: Celsius, Fahrenheit, Meters, Feet, Kilograms, Pounds")

    while True:
        conversion_type = input("\nEnter the conversion type (Temperature, Length, Weight) or 'exit' to quit: ").lower()

        if conversion_type == "exit":
            break
        elif conversion_type == "temperature":
            temperature_converter()
        elif conversion_type == "length":
            length_converter()
        elif conversion_type == "weight":
            weight_converter()
        else:
            print("Error: Unsupported conversion type. Please enter Temperature, Length, or Weight.")

if __name__ == "__main__":
    main()
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