Please debug the following Micro Python Code and Circuit

Desired Function:

Wait 5 seconds

Turn on LED and not the time

Wait for button press

When the button is pressed not the time it was pressed and calculate the elapsed time between the LED turning on and the button being pressed

Print the elapsed time

Turn the LED off

Repeat all

Link to Circuit: https://1drv.ms/u/s!AuEh5MXv0NKZw30PXXncZIlhj80D?e=pOeoOd

Current Code:

import machine

import time

# Define GPIO pins for the LED and button

led\_pin = machine.Pin(14, machine.Pin.OUT)

button\_pin = machine.Pin(15, machine.Pin.IN, machine.Pin.PULL\_DOWN)

# Function to measure reaction time

def reaction\_time\_tester():

led\_pin.off() # Turn off the LED

time.sleep(5)

led\_pin.on() # Turn on the LED

start\_time = time.ticks\_ms() # Get start time in milliseconds

# Wait for button press

while True:

if button\_pin.value() > 0.5:

end\_time = time.ticks\_ms() # Get end time in milliseconds

reaction\_time = end\_time - start\_time # Calculate reaction time

print('Reaction Time:', reaction\_time, 'ms')

break

led\_pin.off() # Turn off the LED

# Call the function to start the reaction time tester

reaction\_time\_tester()