

# PIR MOTION DETECTION SYSTEM USING RASPBERRY PI PICO W

GROUP MEMBERS:

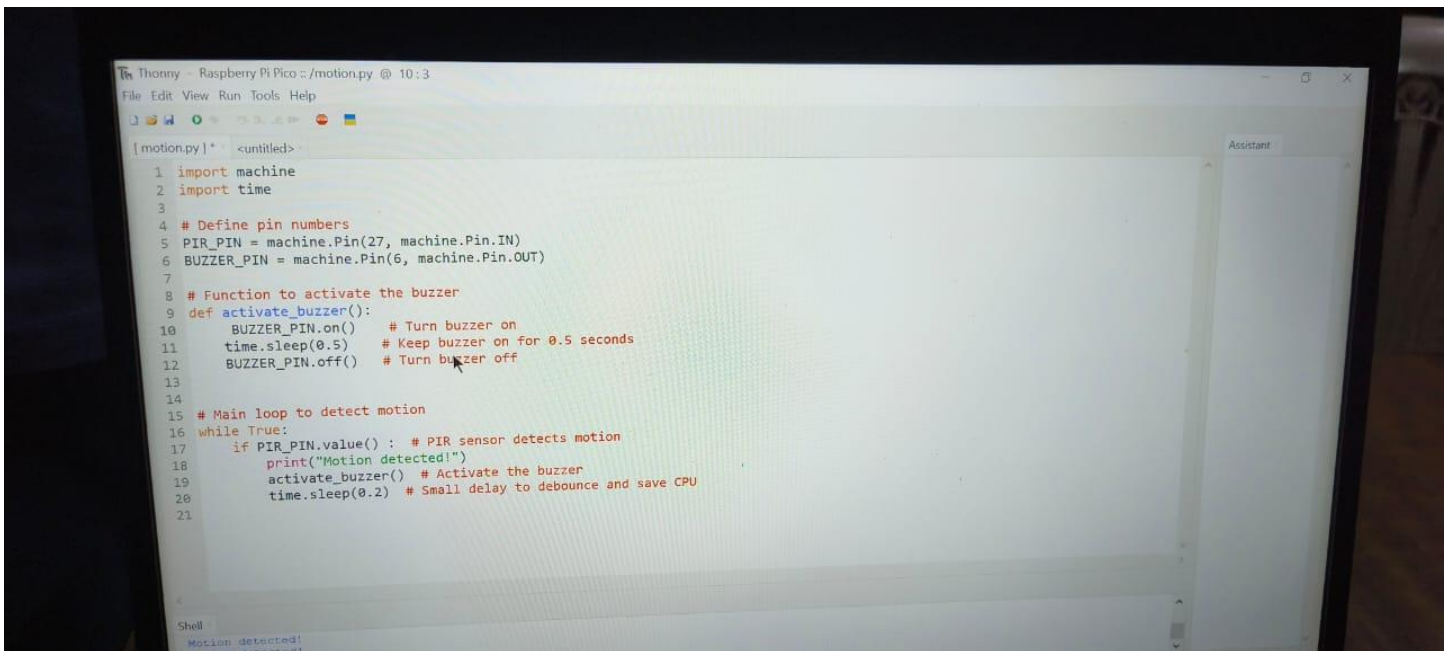
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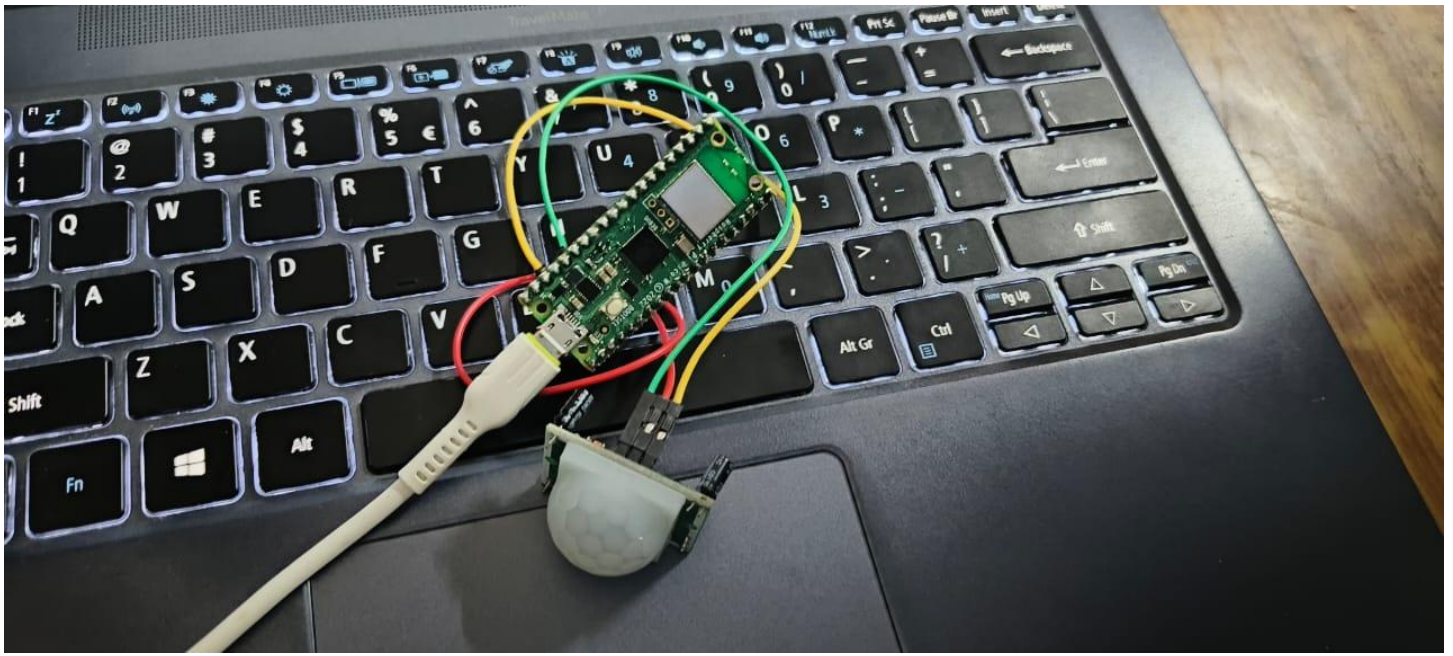
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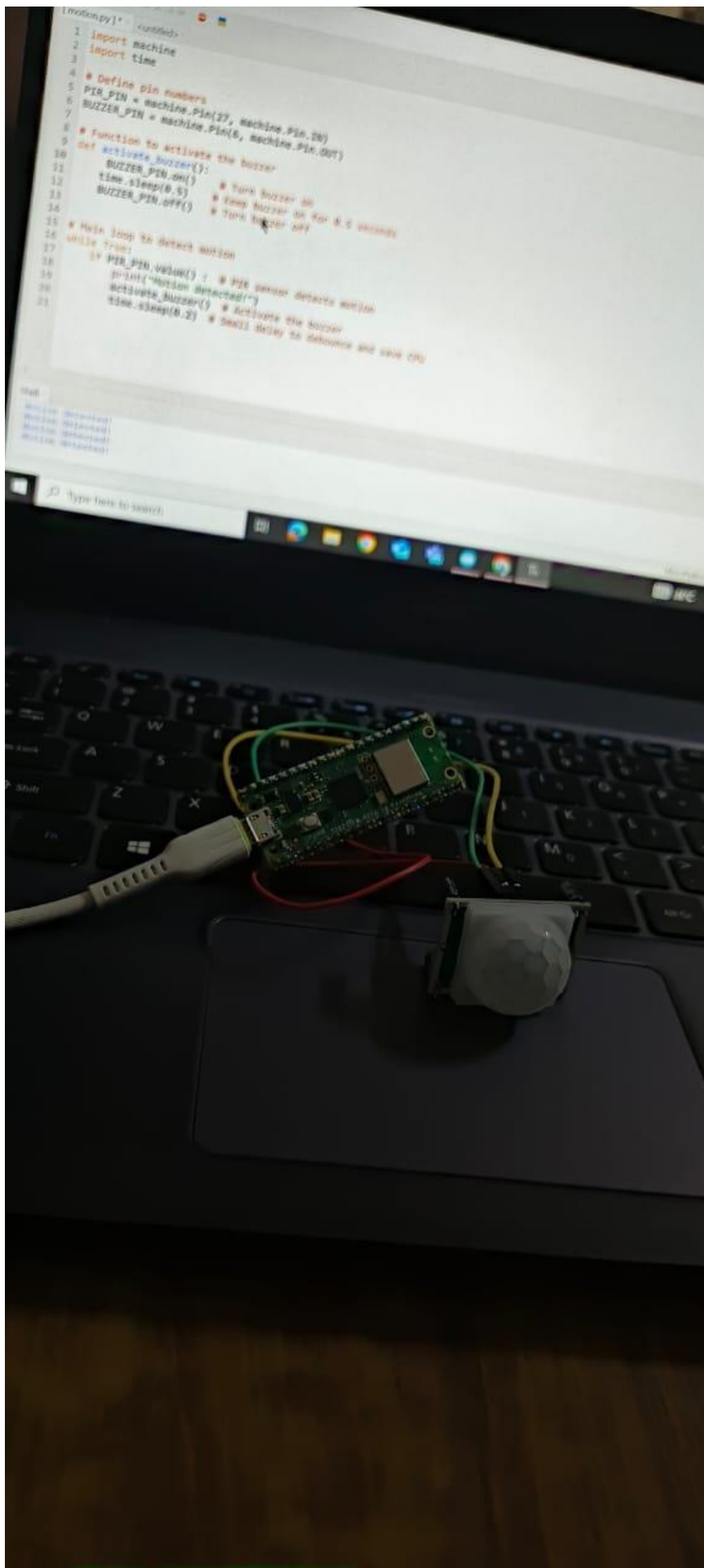


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Thonny - Raspberry Pi Pico : /motion.py @ 10:3
File Edit View Run Tools Help

[motion.py] * <untitled>
Assistant

1 import machine
2 import time
3
4 # Define pin numbers
5 PIR_PIN = machine.Pin(27, machine.Pin.IN)
6 BUZZER_PIN = machine.Pin(6, machine.Pin.OUT)
7
8 # Function to activate the buzzer
9 def activate_buzzer():
10     BUZZER_PIN.on() # Turn buzzer on
11     time.sleep(0.5) # Keep buzzer on for 0.5 seconds
12     BUZZER_PIN.off() # Turn buzzer off
13
14
15 # Main loop to detect motion
16 while True:
17     if PIR_PIN.value() : # PIR sensor detects motion
18         print("Motion detected!")
19         activate_buzzer() # Activate the buzzer
20         time.sleep(0.2) # Small delay to debounce and save CPU
21
22
Shell
Motion detected!
Motion detected!
```





```
[motion.py]: ~ ->
1 import machine
2 import time
3
4 # Define pin numbers
5 PIR_PIN = machine.Pin(27, machine.Pin.IN)
6 BUZZER_PIN = machine.Pin(5, machine.Pin.OUT)
7
8 # Function to activate the buzzer
9 def activate_buzzer():
10     BUZZER_PIN.on() # Turn buzzer on
11     time.sleep(0.5) # Keep buzzer on for 0.5 seconds
12     BUZZER_PIN.off() # Turn buzzer off
13
14 # Main loop to detect motion
15 while True:
16     if PIR_PIN.value(): # PIR sensor detects motion
17         print("Motion Detected!")
18         activate_buzzer() # Activate the buzzer
19         time.sleep(0.2) # Small delay to debounce and save CPU
```

```

Motion Detected!
Motion Detected!
Motion Detected!
Motion Detected!
```