

## ❖ PIR MOTION DETECTION SYSTEM USING RASBERRY PI PICO W

### GROUP NAMES:

➤ SHAIK MOHAMMAD TOHID

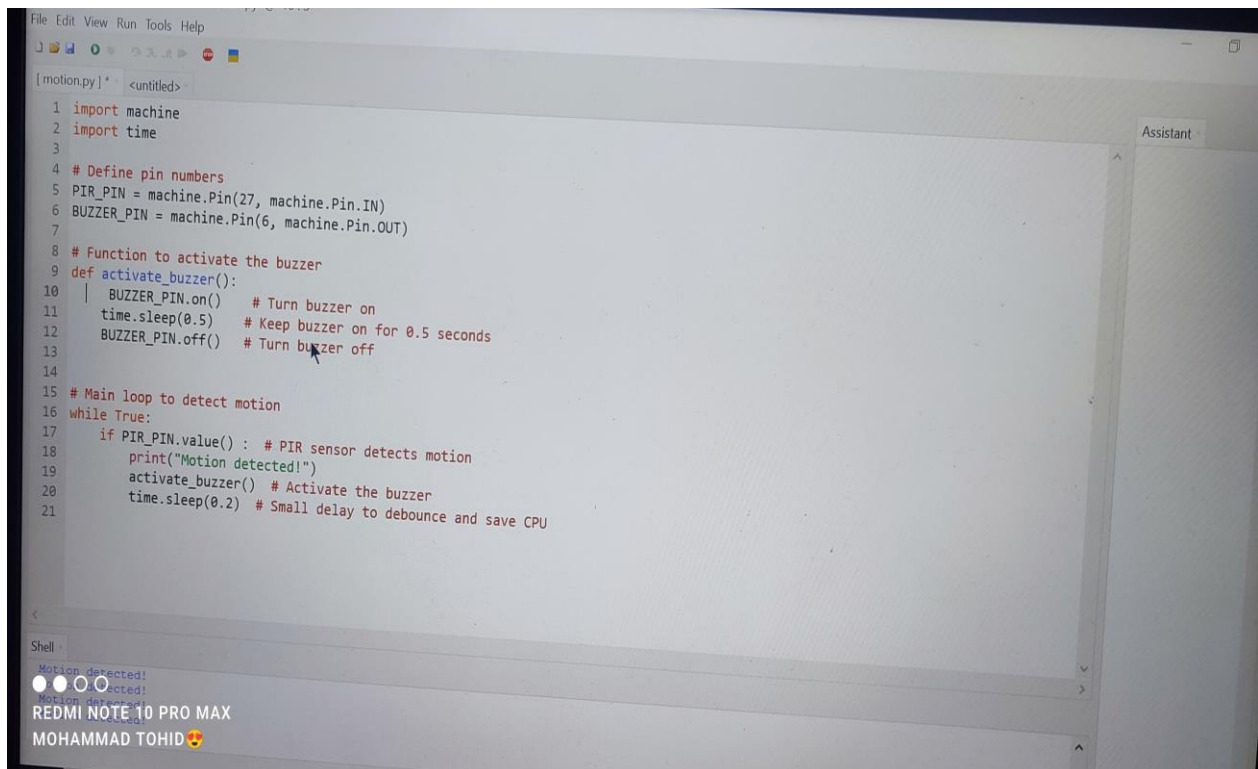
[Roll no:21781A04H6]

➤ SHAIK MASTHAN VALLI

[Roll no:21781A0H3]

➤ S LAKSHMI NARASIMHA

[Roll no:21781A0HG8]



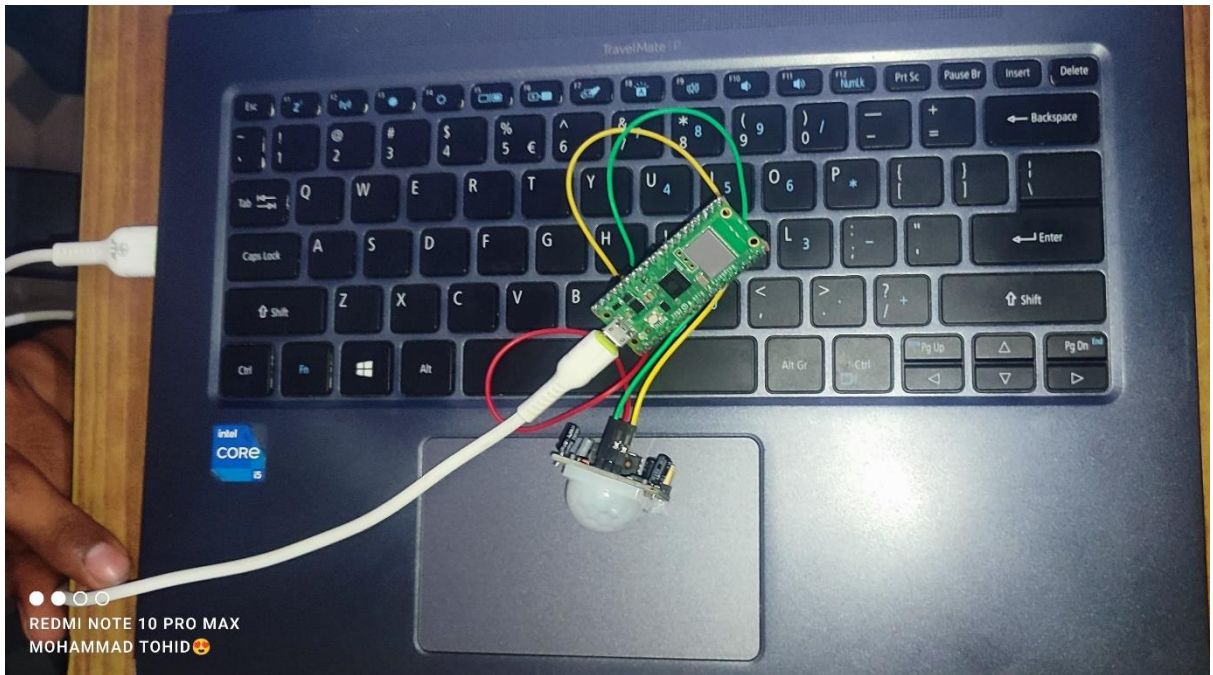
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[motion.py] * <untitled>
1 import machine
2 import time
3
4 # Define pin numbers
5 PIR_PIN = machine.Pin(27, machine.Pin.IN)
6 BUZZER_PIN = machine.Pin(6, machine.Pin.OUT)
7
8 # Function to activate the buzzer
9 def activate_buzzer():
10     BUZZER_PIN.on() # 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
```

Assistant

Shell

Motion detected!  
Motion detected!  
Motion detected!

REDMI NOTE 10 PRO MAX  
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