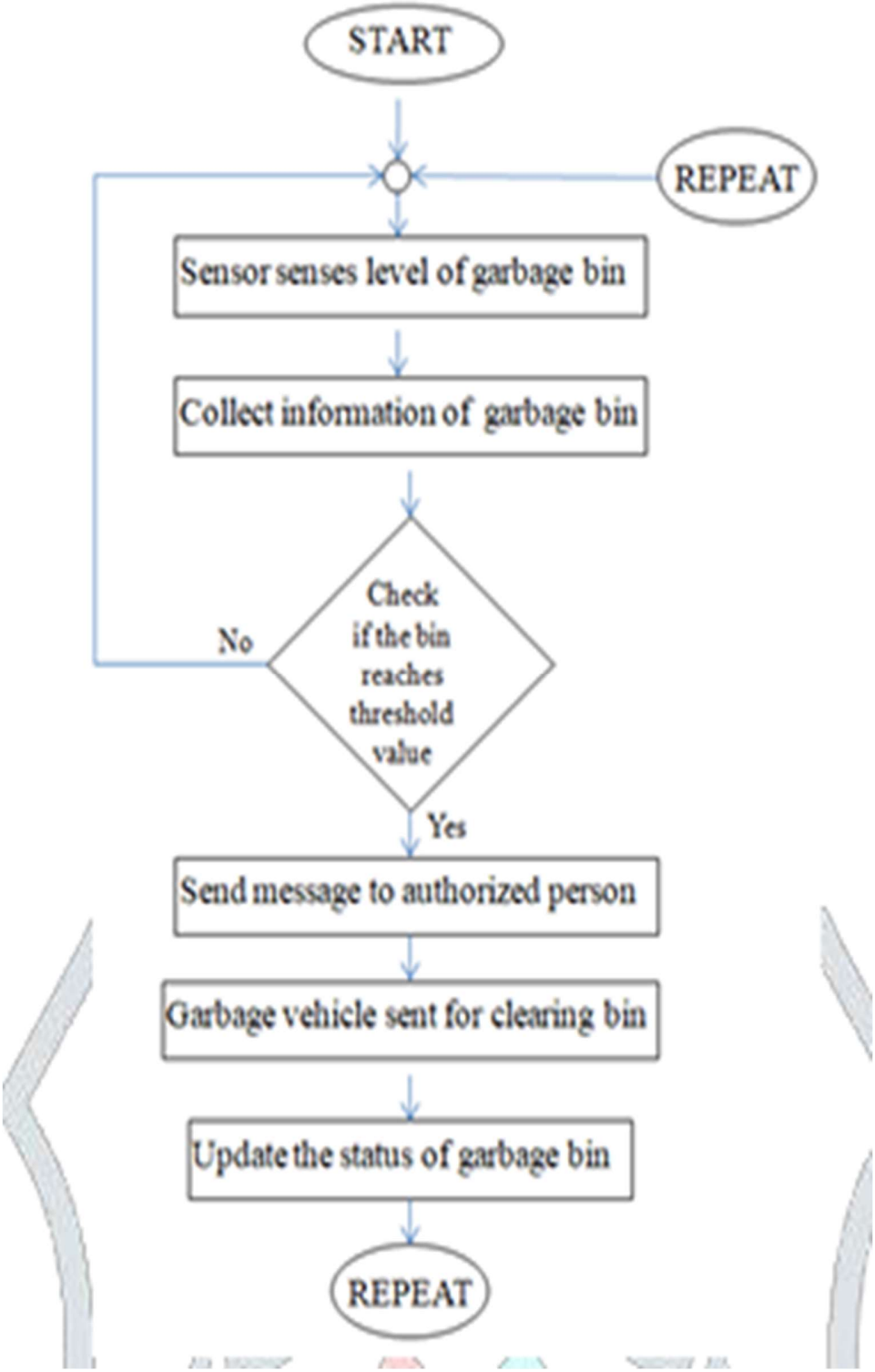
FLOWCHART :


START
REPEAT
Sensor senses level of garbage bin
Collect information of garbage bin
Check if the bin reaches threshold value
No
Yes
Send message to authorized person
Garbage vehicle sent for clearing bin
Update the status of garbage bin
REPEAT

BLOCK DIAGRAM :

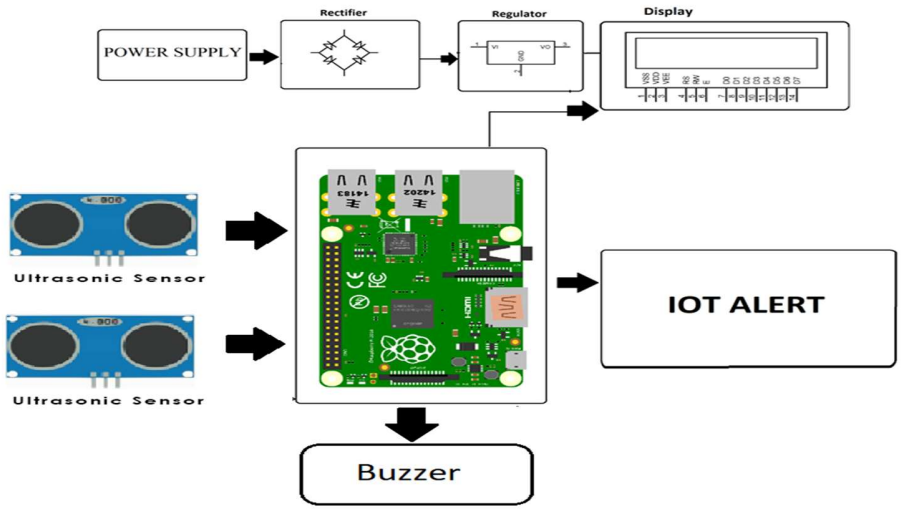
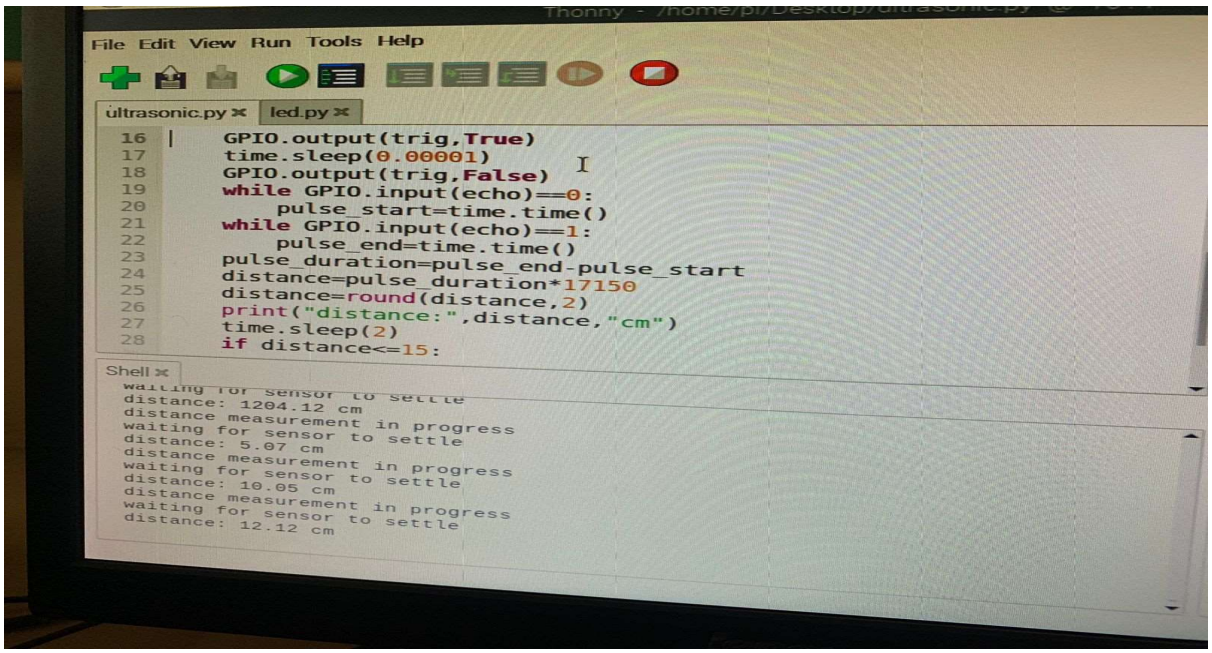


Fig 1:Block diagram of the System design

OUTPUT :


Thonny - /home/pi/Desktop/ultrasonic.py @
File Edit View Run Tools Help
ultrasonic.py
led.py
16 GPIO.output(trig,True)
17 time.sleep(0.00001)
18 GPIO.output(trig,False)
19 while GPIO.input(echo)==0:
20 pulse_start=time.time()
21 while GPIO.input(echo)==1:
22 pulse_end=time.time()
23 pulse_duration=pulse_end-pulse_start
24 distance=pulse_duration*17150
25 distance=round(distance,2)
26 print("distance:",distance,"cm")
27 time.sleep(2)
28 if distance<=15:
Shell
distance: 1204.12 cm
distance measurement in progress
waiting for sensor to settle
distance: 5.07 cm
distance measurement in progress
waiting for sensor to settle
distance: 10.05 cm
distance measurement in progress
waiting for sensor to settle
distance: 12.12 cm