EMAIL\_ALERT\_MESSAGES(6)

import RPi.GPIO as GPIO

import time

import smtplib

from email.mime.multipart import MIMEMultipart

from email.mime.text import MIMEText

SMTP\_SERVER = 'smtp.gmail.com'

SMTP\_PORT = 587

SMTP\_USERNAME = 'kksupekar371121@kkwagh.edu.in'

SMTP\_PASSWORD = 'Ksupekar@2003'

EMAIL\_FROM = 'kksupekar371121@kkwagh.edu.in'

EMAIL\_TO = 'ketanppawar03@gmail.com'

EMAIL\_SUBJECT = 'Object Detected!'

IR\_SENSOR\_PIN = 7

LED\_PIN = 5

GPIO.setmode(GPIO.BOARD)

GPIO.setup(IR\_SENSOR\_PIN, GPIO.IN)

GPIO.setup(LED\_PIN, GPIO.OUT)

def send\_email():

try:

# Create a secure SSL context

server = smtplib.SMTP(SMTP\_SERVER, SMTP\_PORT)

server.starttls()

server.login(SMTP\_USERNAME, SMTP\_PASSWORD)

# Email content

message = MIMEMultipart()

message['From'] = EMAIL\_FROM

message['To'] = EMAIL\_TO

message['Subject'] = EMAIL\_SUBJECT

body = "An object has been detected by the IR sensor."

message.attach(MIMEText(body, 'plain'))

# Send email

server.sendmail(EMAIL\_FROM, EMAIL\_TO, message.as\_string())

# Clean up

server.quit()

print("Email sent successfully!")

except Exception as e:

print(f"Failed to send email: {e}")

try:

while True:

if GPIO.input(IR\_SENSOR\_PIN) == GPIO.HIGH:

print("Object detected!")

GPIO.output(LED\_PIN, GPIO.HIGH) # Turn on LED

send\_email() # Send email notification

time.sleep(1) # Delay to avoid multiple emails in quick succession

else:

print("No object detected.")

GPIO.output(LED\_PIN, GPIO.LOW) # Turn off LED

time.sleep(0.5)

except KeyboardInterrupt:

print("\nExiting program.")

finally:

GPIO.cleanup()