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import random
import smtplib
from email.mime.text import MIMEText

# Simulate sensor data (replace with actual data source)
def generate_sensor_data():
    water_level = random.uniform(0, 10) # Hypothetical water level data
    return water_level

# Flood alert threshold (adjust as needed)
alert_threshold = 7.0

# Function to check for flood conditions
def check_flood_condition():
    water_level = generate_sensor_data()
    if water_level > alert_threshold:
        return True
    return False

# Function to send email alerts
def send_alert_email(subject, message, recipient_email):
    sender_email = "your_email@gmail.com" # Replace with your email
    sender_password = "your_password" # Replace with your email password

    msg = MIMEText(message)
    msg["Subject"] = subject
    msg["From"] = sender_email
    msg["To"] = recipient_email

    try:
        with smtplib.SMTP("smtp.gmail.com", 587) as server:
            server.starttls()
            server.login(sender_email, sender_password)
            server.sendmail(sender_email, recipient_email, msg.as_string())
        print("Alert sent via email.")
    except Exception as e:
        print("Error sending email alert:", str(e))

# Main program
if check_flood_condition():
    subject = "Flood Alert"
    message = "Flood conditions detected in your area. Take necessary precautions."
    recipient_email = "recipient@example.com" # Replace with the recipient's email
    send_alert_email(subject, message, recipient_email)

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