**PROJECT TITLE :**  FLOOD MONITORING AND EARLY WARNING SYSTEM

**PHASE III PROJECT**

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**SOURCE CODE:**

import time

# Simulated sensor functions

def read\_ultrasonic\_sensor():

# Simulated ultrasonic sensor (adjust as needed)

return 20 + (time.time() % 10)

def read\_rain\_sensor():

# Simulated rain sensor (adjust as needed)

return time.time() % 2

def send\_warning\_message():

print("Flood detected! Sending warning message...")

# Main monitoring loop

while True:

try:

ultrasonic\_distance = read\_ultrasonic\_sensor()

rain\_intensity = read\_rain\_sensor()

if rain\_intensity > 0.5:

print("Rain detected. Flood risk!")

if ultrasonic\_distance < 30:

print(f"Flood detected. Water level: {ultrasonic\_distance} cm")

send\_warning\_message()

time.sleep(1) # Adjust the interval as needed

except KeyboardInterrupt:

break