**Air quality monitoring**

**Program:**

import time

import csv

#Stimulated air quality sensor function

def read\_air\_quality\_sensor():

#Replace this with actual sensor data

#Return values like(PM2.5, PM10, CO2)

Return(25, 15, 400)

#Function to log data to a CSV file

def log\_to\_csv(data, filename):

with open(filename, ‘a’, newline=”)as file:

writer=csv.write(file)

writer.writerow(data)

#Main monitoring loop

def main():

while true:

#Read air quality sensor data

air\_quality\_data=read\_air\_quality\_sensor()

#Get current timestamp

Timestamp=timie.strftime(‘%Y-%m-%d%H:%M:%S’)

#Combine data with timestamp

data\_with\_time=(timiestamp)+air\_quality\_data

#Log data to CSV file

log\_to\_csv(data\_with\_time, ‘air\_quality\_data.csv’)

#Print the data(can replace this with data virtualization)

print(data\_with\_time)

#Sleep for a specified interval

time.stamp(600)

if name\_==’\_\_main\_\_’:

main()