Python script that you can use on the IoT sensors to send collected water level data to the early warning platform. This script assumes you are using a network-enabled microcontroller like Raspberry Pi or ESP32, and it sends the data over HTTP:

python code:

```
import requests

import random

import time


# Replace the following variables with actual data

SENSOR_ID = "your_sensor_id"

API_ENDPOINT = "http://your_early_warning_platform_endpoint"    # Replace with the actual endpoint


# Simulating water level data collection

def read_water_level():

    # Assuming the sensor data is collected here

    return round(random.uniform(0, 10), 2)    # Simulated water level


# Sending data to the early warning platform

def send_data_to_platform(data):

    payload = {

        "sensor_id": SENSOR_ID,

        "data": data,

        "timestamp": time.time()

    }

    try:
```

```
            response = requests.post(API_ENDPOINT, json=payload)
            if response.status_code == 200:
                print("Data sent successfully.")
            else:
                print(f"Failed to send data. Status code: {response.status_code}")
        except requests.RequestException as e:
            print(f"An error occurred: {e}")

# Main execution loop
if __name__ == "__main__":
    try:
        while True:
            water_level = read_water_level()
            send_data_to_platform(water_level)
            time.sleep(5)  # Adjust the sleep time based on your requirements
    except KeyboardInterrupt:
        print("Script stopped by the user.")
```

Make sure to replace the placeholder values with your actual sensor ID and the endpoint of your early warning platform. Additionally, ensure that your IoT device has the necessary libraries installed, such as requests for making HTTP requests.

By
KEERTHANA S

950321104025

NM ID: B81DBD9FF719AC6A98D4D3D4BCD325F8