**Step 4: Implement the Solution (Word Code)**

Automated Pet Feeder Logic Sequence

1. Start system

2. Check if system\_status == ON

- If OFF:

→ Wait and retry until system is ON

3. Check current\_time

- If current\_time == feeding\_time (08:00 or 18:00):

→ Proceed to the next step

- Else:

→ Wait until the next scheduled time

4. Check food\_level\_sensor

- If food\_level\_sensor == False:

→ Send alert: "No food available"

→ End process

- If food\_level\_sensor == True:

→ Rotate servo\_motor to dispense food

5. Wait 10 minutes

6. Check bowl\_weight\_sensor

- If bowl\_weight has not changed:

→ Send alert: "Food not eaten"

- If bowl\_weight has increased:

→ Log: "Pet fed successfully"

7. End process