START

// STEP 1: Getting current time

INPUT CurrentTime

// STEP 2: Check if it's feeding time

IF CurrentTime = “8:00” or CurrentTime = “18:00” THEN

// if its feeding time, move to step 3

ELSE

DISPLAY "Not feeding time"

Loop back to STEP 1

ENDIF

// Step 3: Identify pet profile ( type of pet, size)

INPUT pet\_type // “cat” or “dog”

INPUT pet\_size // “small” or “medium” or “large”

// Step 4: Calculate the amount of food according to pet profile

SET requiredAmount = CalculateFoodAmount(pet\_type, pet\_size)

// Step 5: check food supply level

If food supply >= required amount THEN

// move to step 6 if its enough food to dispense

ELSE

Trigger alert “ Low food supply”

WAIT for refill

ENDIF

// Step 6: Activate dispenser and pour food

CALL ActivateDispenserMotor

CALL DispenseToCorrectBowl(pet\_type, pet\_size, required\_amount)

// Step 7: Check if dispensing was successful

IF DispenseSuccessful == TRUE THEN

// Step 8: Read the bowl's weight sensor

SET InitialWeight = ReadWeightSensor

IF InitialWeight == ERROR THEN

Trigger alert "Sensor read failed"

ENDIF

// Step 9: Wait for 15 minutes

WAIT 15 minutes

// Step 10: Read the bowl's weight again

SET FinalWeight = ReadWeightSensor

// Step 11: Compare weights to collect consumption data

IF FinalWeight < InitialWeight THEN

CALL CollectConsumptionData

CALL DisplayConsumptionData

ELSE FinalWeight == InitialWeight THEN

Trigger alert "No food consumed"

ELSE

Trigger alert // if weight increase

ENDIF

ELSE

Trigger alert "Dispensing failed"

ENDIF

END