**Step 4: Implement the Solution**

BEGIN PROGRAM

# Define variables

feedingSchedule = ["07:00", "14:00"] # Scheduled feeding times

portionSize = 100 # Portion in grams

foodBinLevel = 0 # Current bin food level (grams)

bowlWeightBefore = 0 # Weight before feeding (grams)

bowlWeightAfter = 0 # Weight after feeding (grams)

eatenThreshold = portionSize \* 0.8 # 80% of portion considered "eaten"

LOOP forever:

currentTime = GetCurrentTime() # Read from real-time clock

# Check if it's feeding time

IF currentTime = feedingSchedule THEN

# Check if food bin has enough food

IF foodBinLevel >= portionSize THEN

bowlWeightBefore = ReadBowlWeight() # Record initial bowl weight

RotateMotor(portionSize) # Dispense portion into bowl

foodBinLevel = foodBinLevel - portionSize

Wait(10 minutes) # Allow pet to eat

bowlWeightAfter = ReadBowlWeight() #Record weight after feeding

# Check if pet ate enough food

IF (bowlWeightAfter - bowlWeightBefore) >= eatenThreshold THEN

LogEvent(currentTime, portionSize, "SUCCESS")

ELSE

SendAlert("Pet not eating")

LogEvent(currentTime, portionSize, "FAIL - Not Eaten")

ENDIF

ELSE

SendAlert("Food bin empty") # Alert staff

LogEvent(currentTime, 0, "FAIL - Bin Empty")

ENDIF

ENDIF

END LOOP

END PROGRAM