BEGIN AutomatedPetFeeder

feedingSchedule = ["08:00", "18:00"]

foodLevelThreshold = 15%

weightDropThreshold = 10g

LOOP forever

currentTime ← readRTC()

IF manualOverrideButtonPressed THEN

dispenseFood()

log("Manual feed at " + currentTime)

ENDIF

FOR each timeSlot in feedingSchedule

IF currentTime == timeSlot THEN

foodLevel ← readFoodLevelSensor()

IF foodLevel < foodLevelThreshold THEN

sendAlert("Low food level - feeding skipped")

CONTINUE

ENDIF

dispenseFood()

weightBefore ← readBowlWeight()

WAIT 10 minutes

weightAfter ← readBowlWeight()

IF weightBefore - weightAfter < weightDropThreshold THEN

sendAlert("Food not eaten after " + timeSlot)

ELSE

log("Feed success at " + timeSlot)

ENDIF

ENDIF

ENDFOR

ENDLOOP

END