# Step 4: Implement the Solution (Word Coding)

# MODULE: PetFeederSystem

1. IF FeederBatteryLevel < 10%

THEN

SEND alert: "Battery replacement required"

END

1. IF FeederStatus = "Error"

THEN

SEND alert: "Feeder is out of order"

END

1. IF CurrentTime = ScheduledFeedingTime

THEN

IF FoodStorage ≥ 150g

THEN

IF BowlWeight < 7g

THEN

DISPENSE food

MEASURE and LOG ActualAmountDispensed

START 20-minute timer

WAIT until timer = 20 minutes

IF BowlWeight ≥ 7g

THEN

SEND alert: "Food not consumed"

END IF

ELSE

SEND alert: "Food not consumed"

END IF

ELSE

SEND alert: "Need to fill up the food"

END IF

ELSE

IF CurrentTime = ScheduledFeedingTime - 10 minutes

THEN

IF FoodStorage < 150g

THEN

SEND alert: "Need to fill up the food"

END IF

END IF

**END MODULE**