Step 4: Implement the Solution (Word Coding)

# Step 1: Initialzing the system

SET feedingschedule = [08:00 am, 08:00 pm] // Here feeding time is set for 8 am and 8 pm i.e 2 times

INITIALIZE realtimeclock // Starting the real time clock

INITIALIZE weightSensor. // Activating bowl weight motor

INITIALIZE motor. // Activating food dispensing motor

INITIALIZE alertsystem. // Activating alert system to send alerts

CREATE feedinglog. // creating a storage to records the log data

# Step 2: Creating a loop for continuous loop

WHILE system is ON. // System will be running as long as there is power

Currentime = Read realtimeclock // checks the current time

IF currenttime = feedingschedule // if current times matches with schedule timing, we dispense the pet food

Bowlweightbefore = Read weightSensor. // we will record the bowl weight before dispensing pet food.

ACTIVATE motor to dispense food // starts motor to dispense food.

Bowlweightafter = Read weightSensor // records the bowl weight after dispensing.

IF Bowlweightafter = Bowlweightbefore

SEND alert as “Food not dispensed” // alerts user there is error in dispensing.

Else:   
WAIT 10 minutes // give some time to eat for pets

Bowlwiegthafter10Min = READ weightsensor // records the bowl weight again

IF Bowlwiegthafter10Min => 75% of Bowlweightafter   
SEND alert “Food not eaten” // alerts the user thar pet hasn’t eaten food.

ENDIF

ENDIF

ADD record (currenttime, Bowlweightafter – Bowlweightbefore, status) To feedinglog // we record and save the log in a excel file.

ENDIF  
ENDWHILE