Testing Solution

# Test Cases

## Case 1: Pet eats as expected

**Input Variables:**

FT = 1

BEmp = 1

**Output:**

FT *and* BEmp = 1 *and* 1 = 1

**ALERT** = 1 // Alert LED does not lights up

**MOT** = 1 // Run Motor

### Result: Pass

## Case 2: Pet does not eat

**Input Variables:**

FT = 1

BEmp = 0

**Output:**

FT *and* BEmp = 1 *and* 0 = 0

**ALERT** = 0 // Alert LED lights up

**MOT** = 0 // Motor doesn’t run

### Result: Pass

# Improvements

The system will be able fulfill the requirement based on the problem statement. We can make some improvements to the system

1. Add sensor to monitor food level in the food storage container
2. Add a new time input to continuously check and log food consumption to identify the consumption behavior
3. Add WiFi module to add mobile app notification, as mobile notification can be more effective mode of communication