**Testing and Refining the solution**

**Some assumptions**:

**CASE 1: In step 4 ( Is bowl empty?)**

Q1) What if pet gets sick and eat only half amount?

-This is a serious issue where food will not be dispensed. We can make further changes like,

i) **If the bowl is empty**: Dispense the full portion.

ii) **If the bowl contains food**: Assess the remaining amount.

Q2) What if pet does not like that dispensed food and like to have another?

* That is something interesting and have to add some new feature.

**Some suggested improvements:**

1. Pet’s activities can be monitored by the installation of web cameras.
2. Pet’s health can be monitored by integrating health monitoring system.
3. Develop the system to handle multiple pets with different dietary needs.
4. Features like heating or cooling the food can be installed.