UNIVERSITY OF CANBERRA

INTRODUCTION TO INFORMATION TECHNOLOGY (4478/8936)

Assignment 1: The Solving Problem Process.

Step 2: Organise and Describe the Data

Input Table

Input	Туре	Value	Purpose
Clock	Time	8:00	Feeding time
			(morning)
Food bin and bowl	Boolean (Yes/No)	Yes	Monitors if there is
sensor			food in it
Food bowl weight	Number (grams)	500	Monitors if pets have
sensor			eaten or not

Output Table

Output	Туре	Values	Purpose
Servo motor signal	Action	Rotate for 4 sec	Puts fixed amount in the food bowl
Alerts	Message	Food not eaten	Notify the staffs the problem

Values and Operational Constraints:

• **Feeding Times:** 08:00 and 17:00

• **Bowl Capacity:** 800 grams.

• Food Dispensed per Feeding: 500 grams.

• **Monitoring Window:** If the food bin weight does not change within 60 minutes, send an alert.

• Food Bin Constraint: Bin must have at least one portion available. Otherwise, alert "No food available."