Step 2: organise and describe the data

**Inputs:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Type** | **Sample value** | **Operational constraint** |
| Feeding time | constant | 06:00,19:00 | Predefined schedule, feeding time 2 times/day |
| Real time clock | input | 07:45 | Continuous real time clock |
| Food container level sensor | Input | 60% | Range(0-100%)must be greater than 10% to dispense |
| Bowl weight sensor | input | 200 gm | Range(max 500g) |

**outputs:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Type** | **Sample value** | **Operational constraint** |
| Servo motor Rotation | output | Rotate 90° | 0°-180°(should complete in less than 5 seconds) |
| Alert message | Output | “Food not eaten” | Must alert staff. |
| Feeding log | output | 150g dispensed, food eaten | Alert “food eaten” |