## **IIT ASSIGNMENT - 1**

## The Problem Solving Process

**STEP 4** - Implement The Solution (Word Coding)

Word Code for Automated Pet Feeder

```
START SYSTEM
1. Initialize system
  Power ON
  Load feeding schedule (e.g., 08:00 AM, 06:00 PM)
2. LOOP: Monitor continuously
 2.1 Get cur time from Real-Time Clock
 2.2 IF cur_time == feeding_schedule THEN
      a. Check food level
        IF food lev = EMPTY
           SEND ALERT ("Food bin empty")
           LOG event ("Feeding failed as no food")
           SKIP feeding
              RETURN
        ELSE
           ACTIVATE servo motor
           DISPENSE food into bowl
           LOG event ("Food dispensed successfully")
      b. Start 10 mins monitoring timer
      c. WHILE timer not expired
           Measure bowl_weight every 1 minute
           IF bowl_weight decreases
              LOG ("Pet is eating")
              BREAK
       END WHILE
      d. IF after 10 minutes bowl_weight has not changed
           SEND ALERT ("Pet not eating")
           LOG event ("Feeding unsuccessful as pet not eating")
 2.3 ELSE
       Continue waiting and monitoring system
3. Repeat LOOP indefinitely
```

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