

IIT ASSIGNMENT - 1

The Problem Solving Process

STEP 3 - Plan The Solution (Design the Algorithm)

Flowchart Logic

1. System On -> Check feeding time
 - Compare real time clock with feeding schedule.
2. Is it feeding time?
 - If no -> Loop and wait.
 - If yes -> Check food storage level.
3. Is food available in hopper
 - If no -> send alerts: " food bin empty" -> return to wait.
 - If yes -> rotate servo motor to dispense food
4. After feeding -> Monitor bowl weight
 - Start 10 min timer
 - If weight decreases (pet eating) -> feeding successful -> log event
 - If weight unchanged after 10 mins -> send alert: "pet not eating"
5. Repeat for next feeding time

