Reflection:

I began by asking Copilot how can I improve my code further and add weight sensors to check if pets eat properly or not?. It responded with a clear, commented Arduino C++ snippet that used an HX711 load cell to measure before-and-after weights, threshold checks for dispensing success, and a ten-minute eat-or-alert routine. That example helped me improve my previous code and implement weight sensors .

Next, I asked how my system can be built using actual hardware?. Copilot answered with a detailed parts list like Arduino Uno, SG90 servo, HX711 module, DS3231 RTC, IR food sensor, 16×2 I2C LCD, buzzer—and step-by-step wiring instructions. It even suggested using Fritzing for PCB layouts and adding Wi-Fi for remote control.

The information provided by Copilot helped me improve my code and enhanced my knowledge about building automated machines and codes behind it.