Part 3: Ai integration

For my automatic pet feeder system development, I asked copilot:

“Hello copilot, I have written a word code sequence for my automatic pet feeder as follows, can you review it and suggest or identify potential issues. And also tell me the ethical implications of using AI in automated pet care or discuss the reliability of Ai-generated suggestions”

Copilot responded with both code logic review and improvements, followed by a discussion on ethical implications and AI reliability. It first highlighted my strengths such as: clear use of RTC for time-based operations, logical flow, alert for both low food level and uneaten food. And then it highlighted issues with checking exact feeding time and suggested using a time window or flag

System. It also suggested that I take multiple readings of weight and use the average value of those to reduce the noise. It also suggested that I add a fallback routine for error handling.

On the ethical side, it addresses consistency, monitoring, convenience as the positive part and considers over-reliance, privacy, autonomy, bias and errors as negative aspects of using AI in automated pet care.

Overall, copilot helped me understand ethical implications and improved the robustness of my design. It influenced my final solution by encouraging error handling and responsible use of AI in pet care.