**PART 3: On AI Agent Integration**

To strengthen / build up my pet feeder system to advanced form, I used Microsoft Copilot to support multiple aspects of the problem-solving process. At first, I asked to review my 4th Step that is word coding and suggest me some improvements. So copilot suggested me with a modular pseudocode structure that clarified my logic, improved variable naming, and added Strong / Robust error handling. This helped me identify my errors or mistakes which can be corrected in my original implementation which improved readability and maintainability.   
  
After that, I asked Copilot to give me an alternative solution to improve the system’s logic. It suggested enhancements and advance mechanism to include like adaptive portion sizing based on pet profiles, SMS alerts for staff, and battery backup for reliability. These ideas were so real and all aligned with the system’s improvement, so I included them in my final recommendations.

I also asked Copilot to help me write a professional README.md file and organize my GitHub repository. It provided a clean structure with folders for each step, meaningful commit messages, and a clear project summary.

These interaction with copilot allowed me to think beyond and in depth. What I was thinking was just a simple base level model, but copilot helped me with the depth, how it will work and also I asked about the costing so it also helped me the costing out the system, The suggestion that were given by copilot were very practical and helped me to clarify my Final Submission.