I utilized Microsoft Copilot in Part 3 to aid in refining my word-code of the automated pet feeder and to consider the ethical considerations of AI usage in pet care.

The first is that I prompted was that Copilot examine my Step 4 word-code and propose ways to make it more reliable. Copilot pointed out that certain conditions were improper, e.g. using OR True (this always returns true), time checks and boolean checks intermingled and undefined variables such as target\_weight. It suggested that the logic be divided into smaller, re-usable functions, sensor error checking should be included, and weight comparisons should be clearer. This helped me to know how I should arrange the code to make it easy to read and realize errors.

Second, I requested Copilot to discuss the ethical considerations of automated pet care by the use of AI. It raised some crucial concerns including animal welfare, technology dependency, transparency, data confidentiality, and the necessity of human control. I discovered that a properly working system is supposed to have fail-safes, manual override, and pet-specific setting so that it operates fairly and safely.

Such communications affected my final solution since they strengthened the logic, made it more modular and testable, and also helped to consider ethical protection as well as technical enhancements.