Exercises for non-coders

1. You are a neurologist and specialized in multiple sclerosis [an auto-immune, neuroinflammatory disease without cure]. You have a patient which has the following characteristics and to which you want to administer the following treatment:  
     
   “Female relapse-remitting multiple sclerosis (MS) patient, with age-of-onset at 34 years, with a duration of disease of 13 years, with two MS relapses in the last year and three MS relapses in the last 24 months. She had both one T2 spinal cord lesion and in general new T2 as well as Gadolinium-enhancing lesions in the brain at the last year. So far, the patient has taken Beta-interferon for the last four years. Now, we will administer Natalizumab, a high-efficacy treatments with increased secondary effects.”  
     
   Please create a report that describes to a normal person what all of this means, so that your family may understand it! 😊
2. You are mathematician.
   1. You would like to use differential equations to model the spread of flu in the world. Let your favourite generative AI chatbot help with that. At the same, using common logic, try to challenge the results!
   2. Be able to explain both to a person on the street and to your fellow PhD students how to prove that the square root of 2 is irrational?
3. You are a chemist and you will give two presentations, one two elementary school children and one to 17-18 years old adolescents. Please explain to them
   1. How buffer solutions work
   2. What the Elephant’s Toothpaste experiment is about
4. Exercise for two!
   1. Write a basic prompt for a concept (but don’t run it yet)
   2. Swap with a partner, who optimises your prompt and vice versa
   3. Compare the two responses of the genAI and discuss:
      1. Clarity
      2. Accuracy
      3. Engagement
      4. Format