1. Von Neumann Model
   a) What is von Neumann Model?
   b) What are the advantages of this model?
   c) What are the disadvantages of this model?
   d) Describe another model and compare that with von Neumann model. (OPTIONAL)

2. Consider this instruction: ADD R1, 15. Describe all the steps of executing this single instruction in a machine with a Von Neumann architecture. The machine has a 8-bit Data Bus, 8-bit Address Bus and 8-bit instructions.