Computer Architecture

Lab 1

**General Questions**

1. Who is regarded as the first programmer?
   1. The first programmer is Ada Lovelace
2. What was the name of the first computer to be shipped with a graphical user interface? Was it successful?
   1. Apple Lisa, it wasn’t successful due to overprice.
3. In lectures we discussed three different generations of computer architectures, explain what instigated the evolutionary jump for each generation of computer architecture.
   1. The First one is the Vacuums Tubes
   2. The Second Generation is the Transistor
   3. The Third Generation is the Integration Circuit
   4. The Fourth Generation is the Microprocessor
   5. The Fifth Generation Quantum Computing / IoT
4. PDP-8 had a major innovation, what was it? How did this significantly improve the microcomputer industry?
   1. PDP-8 is the first commercialise mini computer.
5. Draw a diagram of the Von Neumann machine, illustrating the flow of communication. How is this related to more recent machines?
6. In your opinion what will the next generation of computers be?