Lab 1 Companion Homework

* + **MITS Altair 8800**

1. Input/Output: Initially the only inputs were flipping switches to get the lights to respond how the user wanted through machine language. Eventually expansion slots were made readily available like a keyboard and monitor.
2. Min. and Max. RAM: 256 Bytes min. (aka 2048 Bits or .256K) and 64K (aka 64000 Bytes or 512000 bits) max.
3. CPU: Intel 8080 at 2MHz
   * **MOS KIM-1**
4. Input/Output: Keypad in hexadecimal form was input. Output could be communications using a serial teletype/teleprinter, an ASCII terminal or a video monitor.
5. Min. and Max. RAM: 1024 bytes (AKA 8192 bits or 1.024 K)
6. CPU: MOS 6502, 1MHz
   * **Apple 1**

1. Input/Output: Circuit board similar to the Raspberry Pi, could have a keyboard hooked up to it and a video output as well.

2. Min. and Max. RAM: 4K (aka: 4000 Bytes or 32000 bits) min and 64K (aka: 64000 Bytes or 512000 bits)

3. MOS 6502, 1MHz

* + **IBM Personal Computer (PC) 5150**

1. Input/Output: Had a keyboard and video output screen and a printer

2. RAM: 16K (aka 16000 bytes or 128000 bits) min or 640K (640,000 bytes or 5120000 bits) max

3. CPU: Intel 8088 at 4.77 MHz

* + **Apple Macintosh**

1. Input/Output: Keyboard and video along with a printer output
2. RAM: 128K (aka 128,000 bytes or 1024000 bits) min and 512K (aka 512,000 bytes or 4096000 bits) max
3. CPU: Motorola 68000, 7.83 Mhz
4. **Base Conversion – On Paper**