1 – The Antikythera mechanism is a gear based analogue computer used to predict planet positions and eclipses according to an accurate calendar. It works by utilizing a system of 37 gears and an outside hand crank to adjust the date. I think the Antikythera mechanism fits our definition because the gears are doing calculations of astronomical positions based on how the hand crank is turned to adjust the gears. This is similar to our diagram of a CPU where the controller uses control signals to tell the Datapath what to do. However, in the case of the Antikythere mechanism calculations are continuous since the gears won't be stopped in the same exact place easily.

2 – binary: 0000-00 10-001 1-0010 1000-0 000-00 10-0010
Hex: 0x02328022
bit field op rs rt rd shamt funct

3 – binary: 0001-00 01-001 0-1100 1111-1111-1111-0011
Hex: 0x112cfff3
bit field op rs rt constant

4 – Uploaded (Hex added with comments)

5 – I assumed they were not string/char and also that they were unsigned and in base 10 (I used multu)

6 – Uploaded