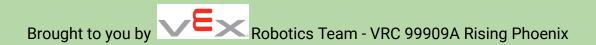




Scan here or visit our website to register -> http://www.CapitalRoboticsClub.com

Python Assignment 3 How CPU work: Transistor - TTL - ALU



Class Recap

- Electric circuit can be switched on and off (changing states)
- Electric switches can be controller by electric signals from another circuit
 - Vacuum Tube
 - Relay
 - Transistor (more advanced form semiconductor)
- Bootstrapping transistors allow output of one circuit to control the output of another circuit, therefore making sophisticated logic gate circuit (called TTL -Transistor to Transistor Logic gate) possible
- We can now build a full binary adder (for 1 bit) electrically using TTL.
- Multiple-bit ALU can be built by combining multiple 1-bit full binary adder with some additional logic circuits

Assignment:

None