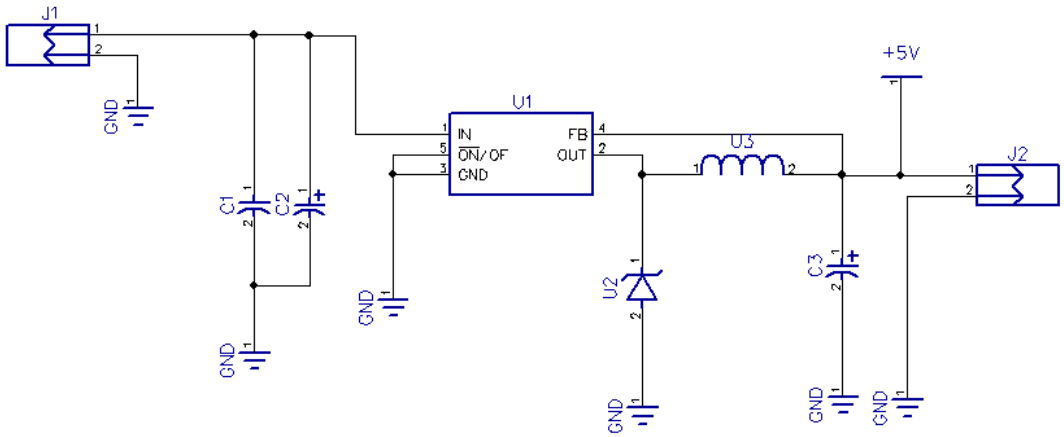
DESD - PCB Designing

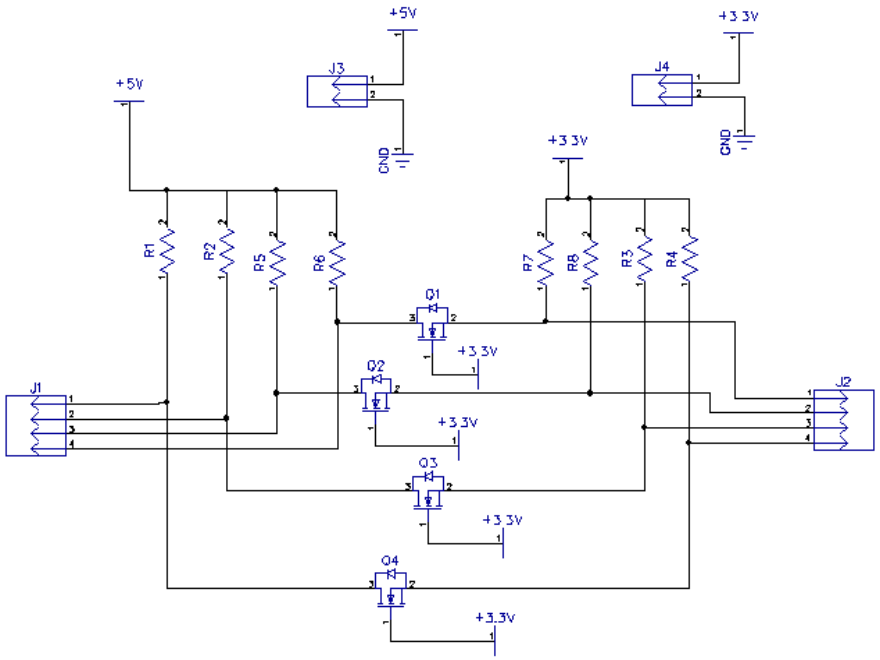
DAY 2

1. Recap Day 1 & clear doubts if any from day 1
2. Explain difference between Single Side PCB & Double Side PCB
3. Explain difference between thru hole components and SMD components
4. **Assignment** - Convert PCB designed in Day 1 to double side PCB with below specifications :
    a. Size : 30 x 50
    b. Mounting Holes at four corner : Hole SIze 3.2mm, Ring Size 5mm, Location 3mm inside from edges.
    c. Final Outcome - Double Side PCB
5. **Assignment** - Double Side using SMD & TH Components - LM2576 Power Supply
    a. Refer below schematic, bill of material table and additional details
    b. Final Outcome - Double Side PCB
    c. PCB Size : 60mm x 40mm
    d. Mounting Holes at four corner : Hole SIze 3.2mm, Ring Size 5mm, Location 3mm inside from edges.



RefDes	Value	Name
C1	0.1uf	CAP_0805
C2	470uF/25V	CAP100RP
C3	470uF 25V	CAP100RP
J1	2 Pin Male	644456-2
J2	2 Pin Male	644456-2
U1	LM2576S5.0	LM2576S5.0
U2	MBR360	MBR360
U3	100uH	100uH Radia Inductor

6. Assignment : Design Logic Level Converter PCB
    a. Refer Schematic and BoM
    b. PCB : Double Size 60x50 mm
    c. Mounting Holes at four corner : Hole SIze 3.2mm, Ring Size 5mm, Location 3mm inside from edges
    d. Logically place the connectors
    e. Print Connector description on PCB



RefDes	Value	Name
J1	4 Pin Male	644456-4
J2	4 Pin Male	644456-4
J3	2 Pin Male	644456-2
J4	2 Pin Male	644456-2
Q1	BSS138	BSS138
Q2	BSS138	BSS138
Q3	BSS138	BSS138
Q4	BSS138	BSS138
R1	10K	RES_1206
R2	10K	RES_1206
R3	10K	RES_1206
R4	10K	RES_1206
R5	10K	RES_1206
R6	10K	RES_1206
R7	10K	RES_1206
R8	10K	RES_1206