Lab 6 Pre-lab

Step 1)

$$V_{DS} > V_{GS} - V_{TH} \quad \longleftarrow \text{ start}$$

$$V_D - V_S > V_G - V_S - V_{TH}$$

$$V_D > V_G - V_{TH}$$

$$V_D - V_G > -V_{TH}$$

$$V_{GD} < V_{TH} \quad \longleftarrow \text{ finish}$$

Other condition : $\boxed{V_{GS} \geq V_{TH}}$

Step 2)

V_{GS}	V_{DS}	I_D	State
1V			
2V			
4V			

Showing process for $V_{GS} = 1V$. (2V & 4V share same process)