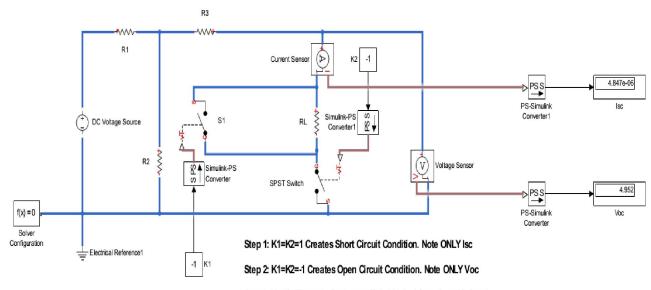
## **Exp 4: Thevenin Theorem**

Step 1: Create a Simulink model as below using the following components

- A. Constant Blocks K1 and K2
- B. SPST Switches S1 and S2
- C. Simulink-PS Converter
- D. Display Block.
- E. PS-Simulink Converter
- F. Resistances (R1=R2=10K, R3=5K, RL=22K)
- G. DC Voltage Source (10V)
- H. Solver Configuration.



Step 3: Verify Thevenin Resistance(Rth=Voc/lsc) from Step 1& Step2

- Step 2: Find Rth by inspection.
- Step 3: Find Short Circuit Current (Isc)
- Step 4: Find Open Circuit Voltage (Voc)
- Step 5: Compute Voc/Isc and Verify it from the Circuit components.
- Step 6: Change R3 to 10K and Re-validate.