DIGITAL SYSTEMS LABORATORY WORK

MODUL 1 : USE PROTEUS 8

By :

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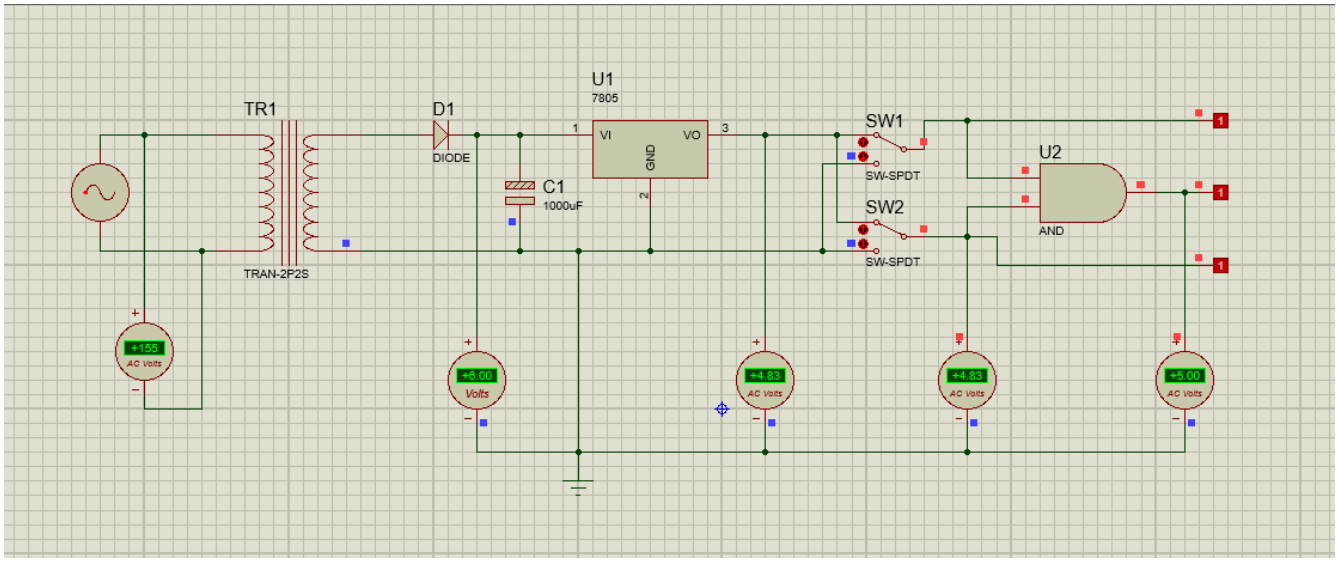
Date of Practicum : Friday, March 1st 2019

Assignment

1. Create the circuit on the picture 1.21, and simulate with the click of a "*run the simulation*"!



2. Record your measurements!
   a. Voltmeter AC : + 155 Volt
   b. Voltmeeter DC 1: + 6.00 Volt
   c. Voltmeeter DC 2: + 4.83 Volt
   d. Voltmeeter DC 3: + 4.83 Volt
   e. Voltmeeter DC 4: + 5.00 Volt

3. Answer the question below !
   a. What is the difference voltage AC and DC ?
      - Air-conditioning voltage is easier to produce than dc tension.
      - Air-conditioning voltage can easily be changed and transmitted, but dc voltage is difficult to alter, therefore they are difficult to send.
      - Active components such as induser, capacitor, transistor, and amexeter are responding to the ac voltage in a way different from the dc voltage, but it will block the dc signal while the induser will do the opposite.
      - Clean areas under constraints – the time line from air – conditioning signals is zero to zero for a dc signal.
      - Underfloor air conditioning allows personal control of temperature.

b. How the character of the voltage at each voltmeter?
   1. Voltage in an AC Voltmeter : (AC/~~DC~~) and has a character : positive unstable
   2. Voltage in an DC 1 Voltmeter : (~~AC~~/DC) and has a character : positive unstable
   3. Voltage in an DC 2 Voltmeter : (~~AC~~/DC) and has a character : positive unstable
   4. Voltage in an DC 3 Voltmeter : (~~AC~~/DC) and has a character : positive unstable
   5. Voltage in an DC 4 Voltmeter : (~~AC~~/DC) and has a character : positive unstable