DIGITAL SYSTEM

PRACTICUM REPORT 1 : USING PROTEUS 8

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CLASS : **X**

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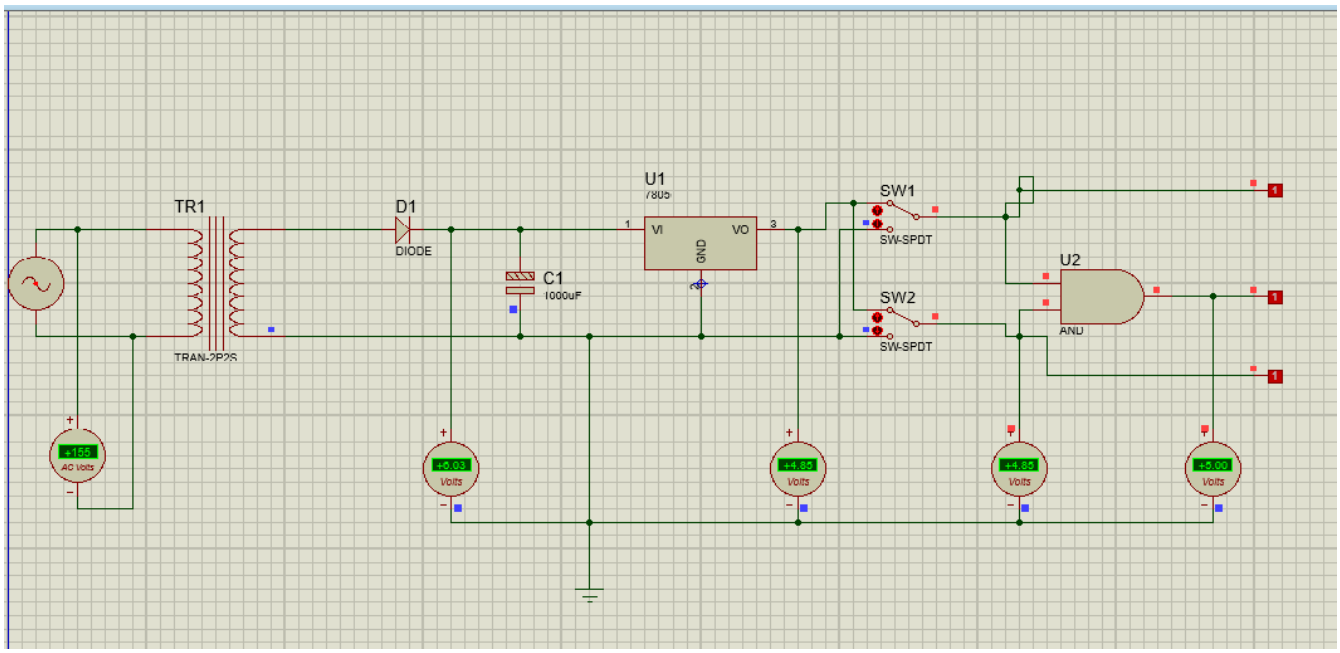
DATE OF PRACTICUM : **Friday, March 1st 2019**



a) Voltmeter AC : +155 Volt
b) Voltmeter DC 1 : +6,03 Volt
c) Voltmeter DC 2 : +4,85 Volt
d) Voltmeter DC 3 : +4,85 Volt
e) Voltmeter DC 4 : +5,00 Volt

Answer the Question Below!

1. **what is the difference between AC and DC voltage?**
    a) AC : alternating current
       DC : direct current
    b) AC voltage is easier to produce than DC voltage.
    c) AC voltage can be easily changed and transmitted, but DC voltage is difficult to change; Therefore they are difficult to send.
    d) Active components such as inducers, capacitors, transistors, and ammeters respond to AC voltage in a different way from DC voltage.
    e) A capacitor will forward the AC voltage, but it will block the DC signal while the induser will do the opposite.
    f) Clean area under voltage - the time curve of an AC signal is zero while not zero for a DC signal.

2. **What is the Character of the Voltage on Each Voltmeter?**
    a) voltage in an AC voltmeter: (AC / ~~DC~~) and has a character: positive stable
    b) voltage in an DC 1 voltmeter: (~~AC~~ / DC) and has a character: positive unstable
    c) voltage in an DC 2 voltmeter: (~~AC~~ / DC) and has a character: positive unstable
    d) voltage in an DC 3 voltmeter: (~~AC~~ / DC) and has a character: positive unstable
    e) voltage in an DC 4 voltmeter: (~~AC~~ / DC) and has a character: positive unstable