

DIGITAL SYSTEM LABORATORY WORK

ASSIGMENT 2



By :

Nadhifah Chairunnisa

NIM : L200184137

**INFORMATION TECHNOLOGY
FACULTY OF COMUNICATION AND INFORMATICS
MUHAMMADIYAH UNIVERSITY OF SURAKARTA**

NIM : L200184137

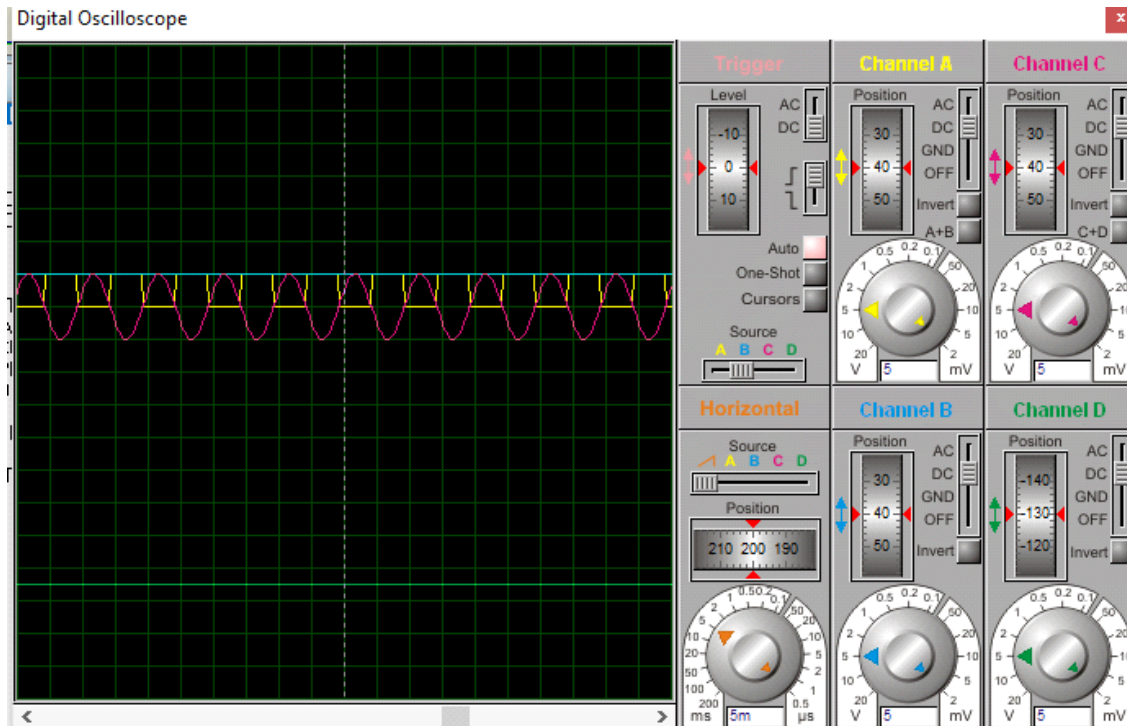
NAME : NADHIFAH CHAIRUNNISA

CLASS : X

ASSISTANT : SALSA SASMITA MUKTI

DATE OF PRACTICUM : Thursday, March 14 2019

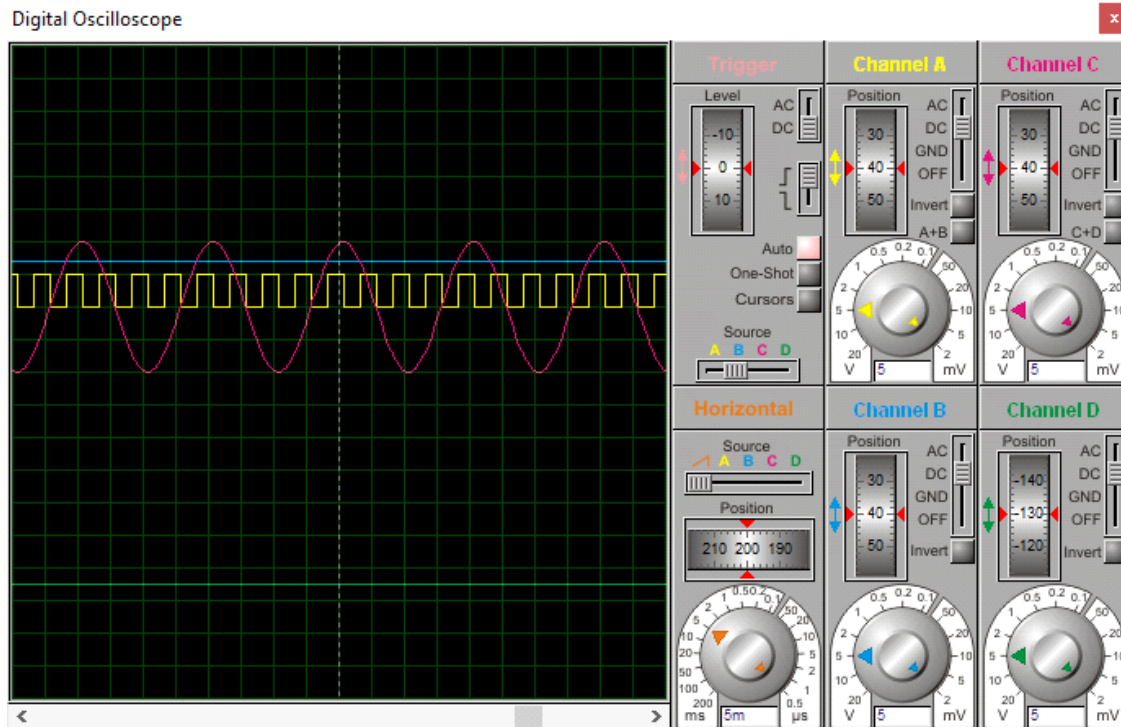
THE FIRTS EXPERIMENT



$$V_{pp}/div = 5 \text{ mV}$$

$$\text{Time}/div = 5 \text{ m/s}$$

Signal B and D is still straight, then signal C is bumpy signal, and signal A is case bumpy. Signal A, B, C, D are constant



$V_{pp}/div = 5 \text{ mV}$

$\text{Time}/div = 5 \text{ ms}$

Signal B and D still straight, then signal C is bumpy signal, and signal A is case bumpy. Signal A, B, C, D are constant.

Answer the Question Below!

a. What is different between analog signal and digital signal?

The analog signal like signal C that is bumpy signal

The digital signal like signal A that is case bumpy

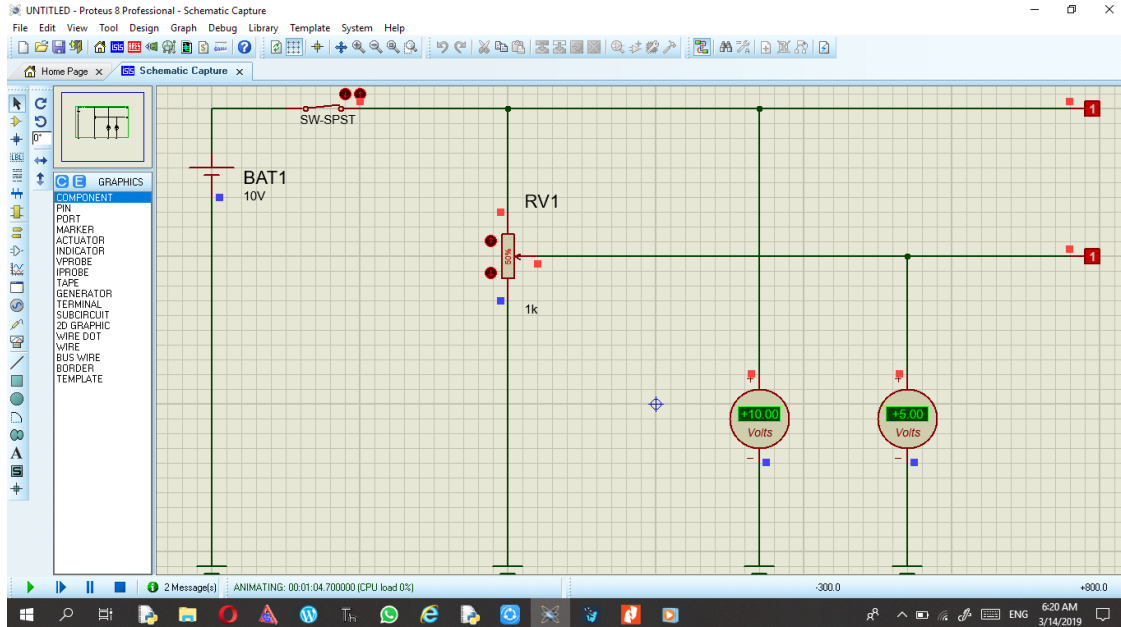
b. How the signal character of respective component?

1. The signal from Alternator (Analog / ~~Digital~~) because can't quantified and the signal is straight
2. The signal from Battery (Analog / ~~Digital~~) because the tension is over off
3. The signal from Clock Source (~~Analog~~ / Digital) because can quantified

The conclusion

From the experiment type of Signal is can be distinguished from the signal occur in oscilloscope

THE SECOND EXPERIMENT

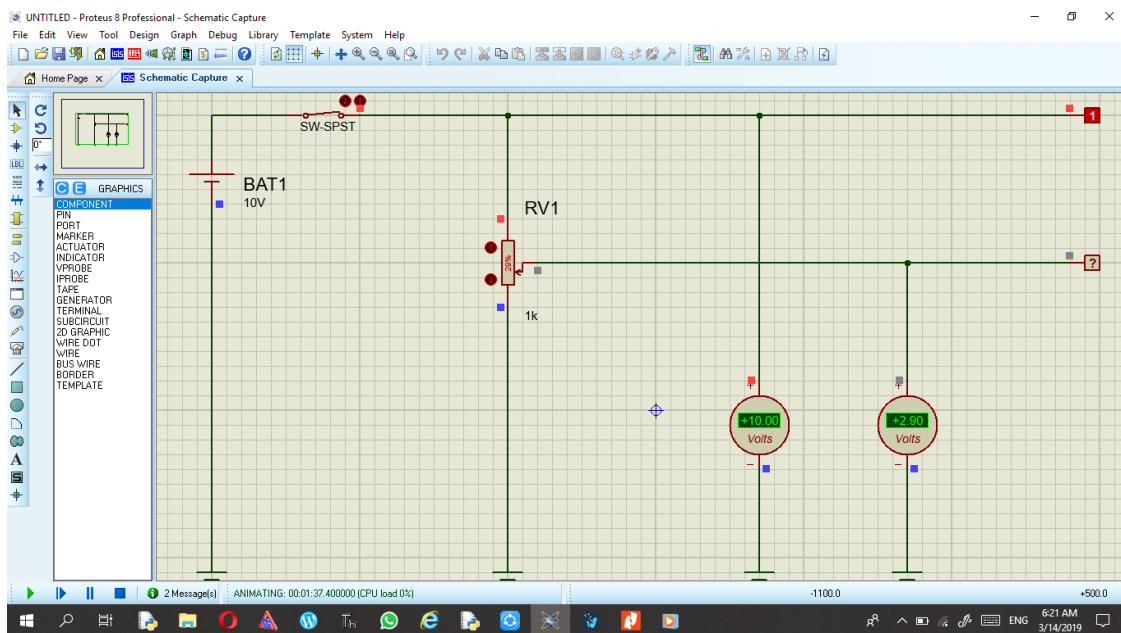
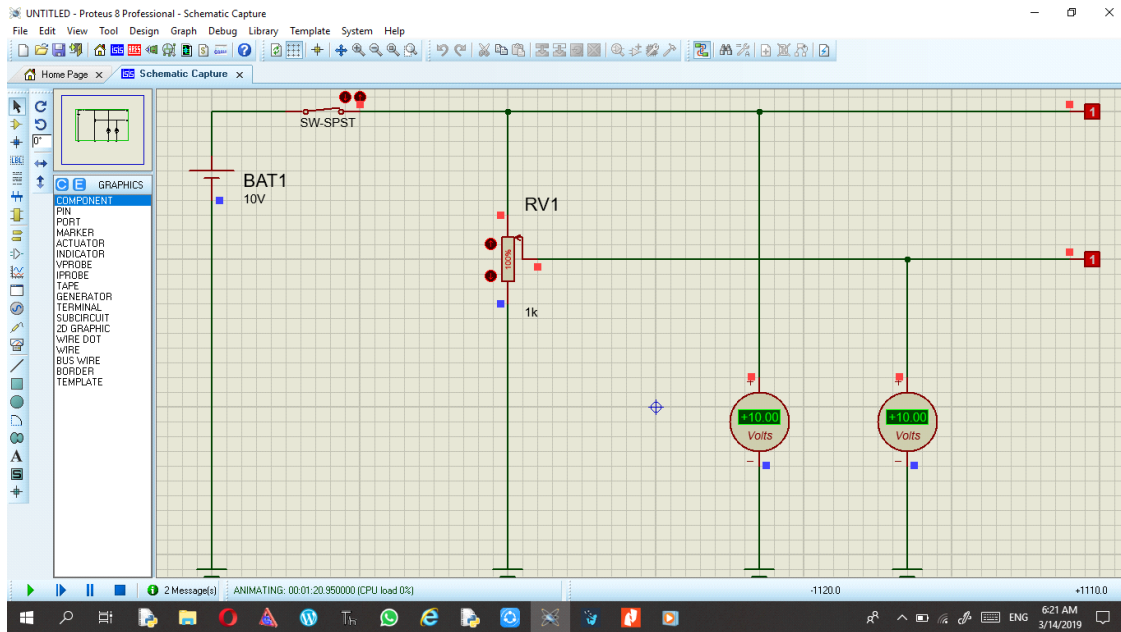


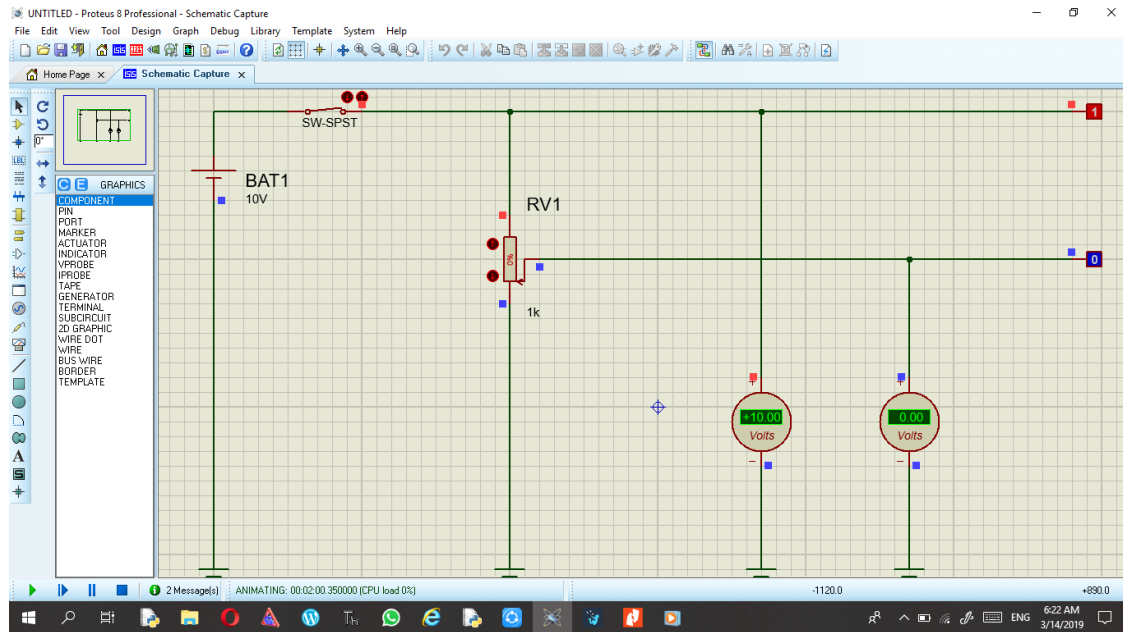
Voltmeter DC 1 : +10.00 volt

Voltmeter DC 2 : +5.00 volt

LogicProbe 1 is direct condition logic 1(high)

LogicProbe 2 is direct condition logic 1(high)





LogicProbe 2 direct the logic condition **1(High)**,
 if Voltmeter DC 2 : +5.00 Volt until +10.00 Volt
 LogicProbe 2 direct the logic condition **0(Low)**,
 if Voltmeter DC 2 : 0.00 Volt until +10.00 Volt

The Conclusion

When the RV 1 is up then the Voltmeter DC 2 and the LogicProbe is turn on.
 When RV 1 is down then DC 2 participate to down until 0.00 and LogicProbe 2 is off