Sawaira saeed

2022-BSE-067

Rabia Batool

2022-BSE-064

Hafsah tahir

2022-BSE-052

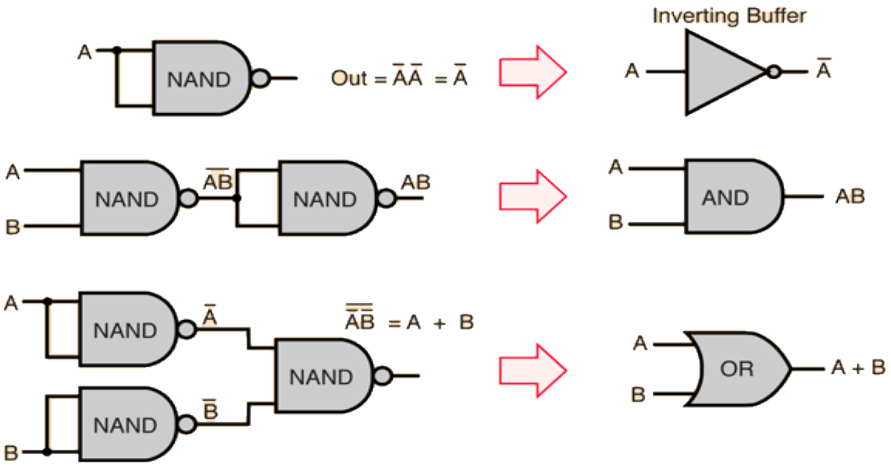
Group#B

Computer architecture and logic design

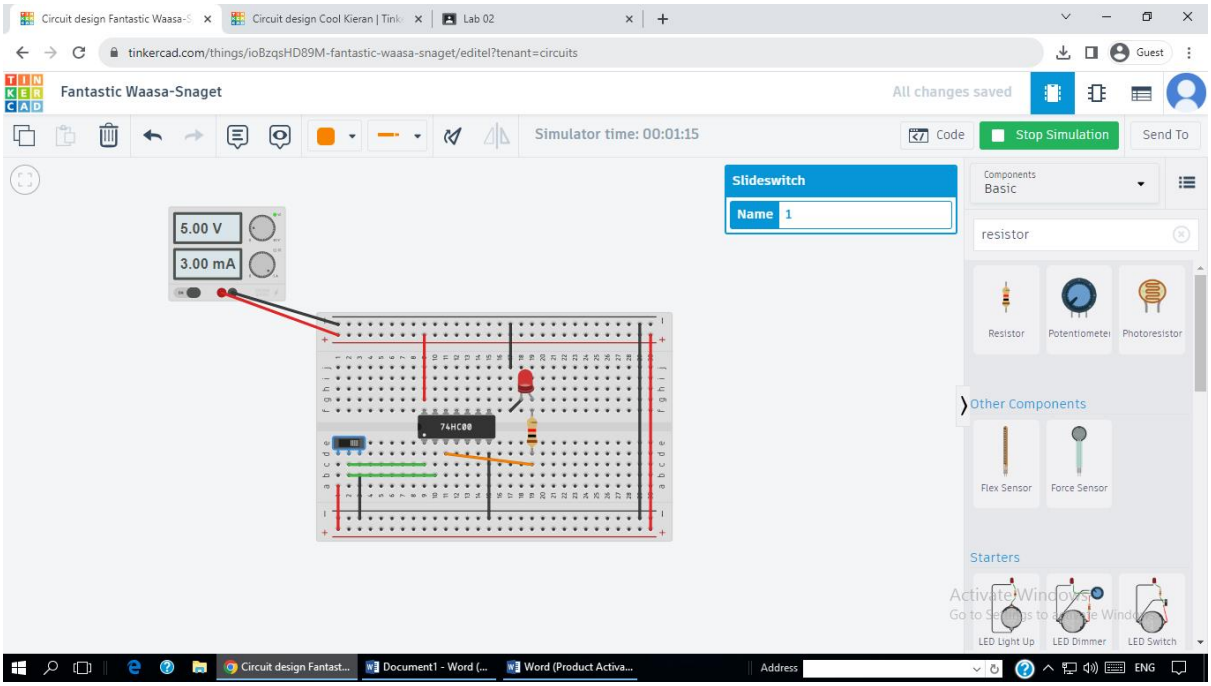
LAB#02

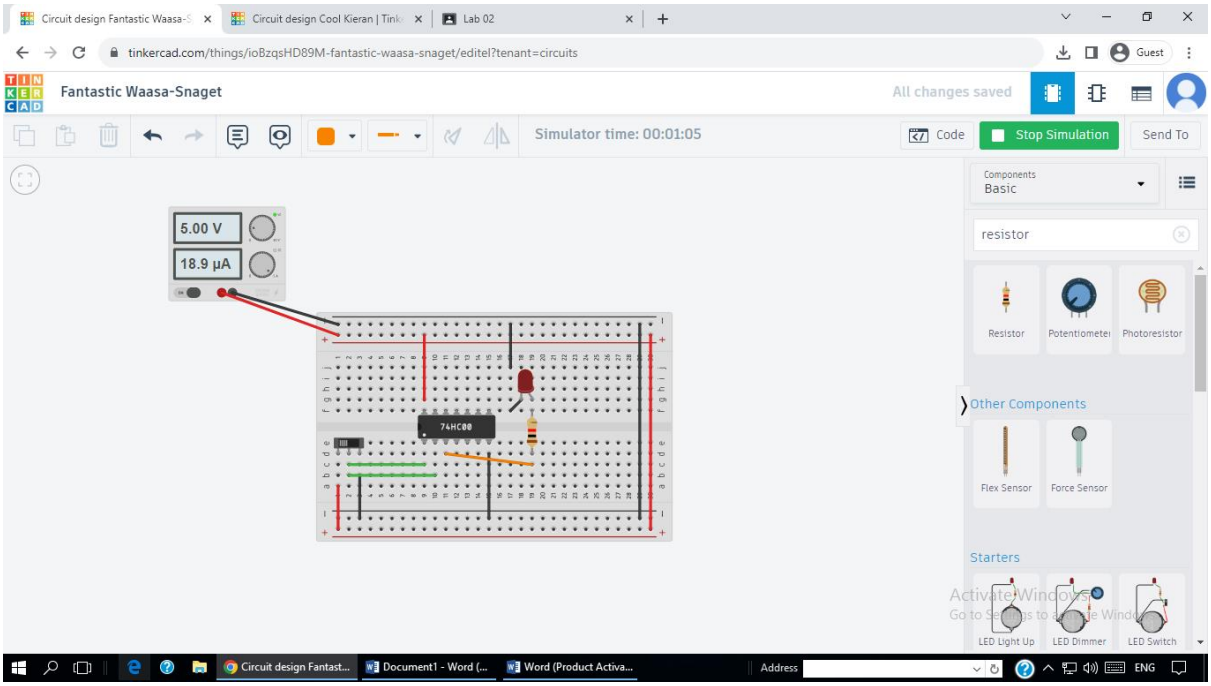
Submitted to Sir Shoaib

3.1. Working with NAND Gate:

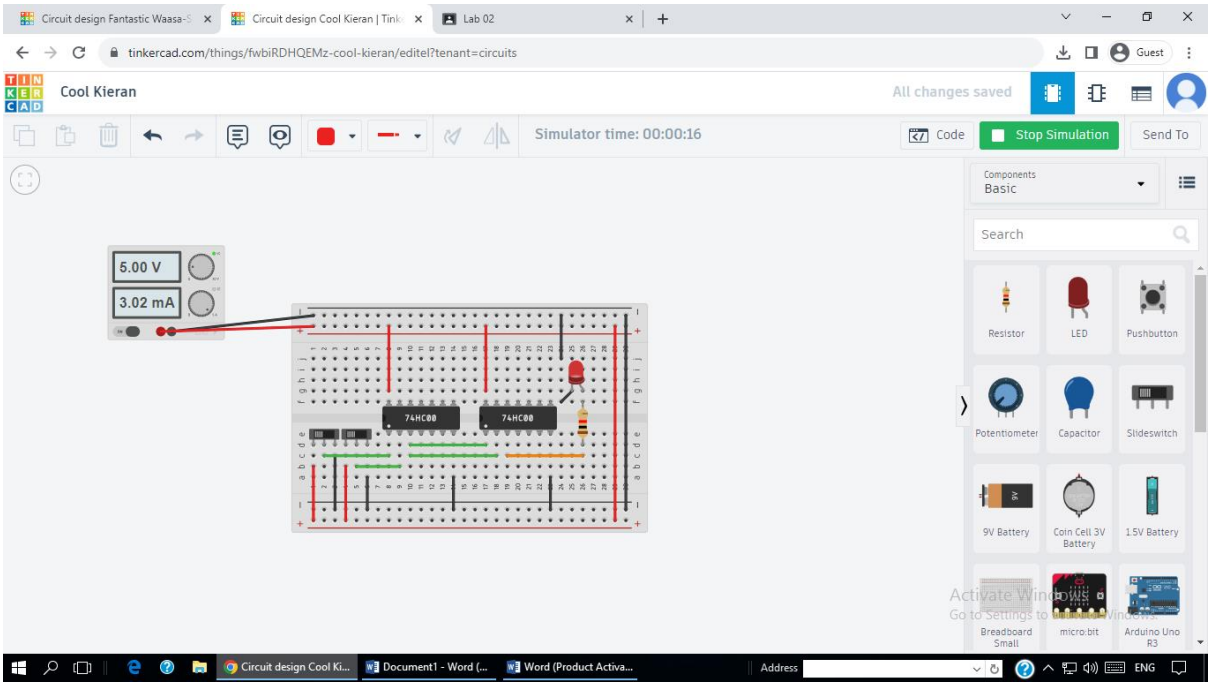


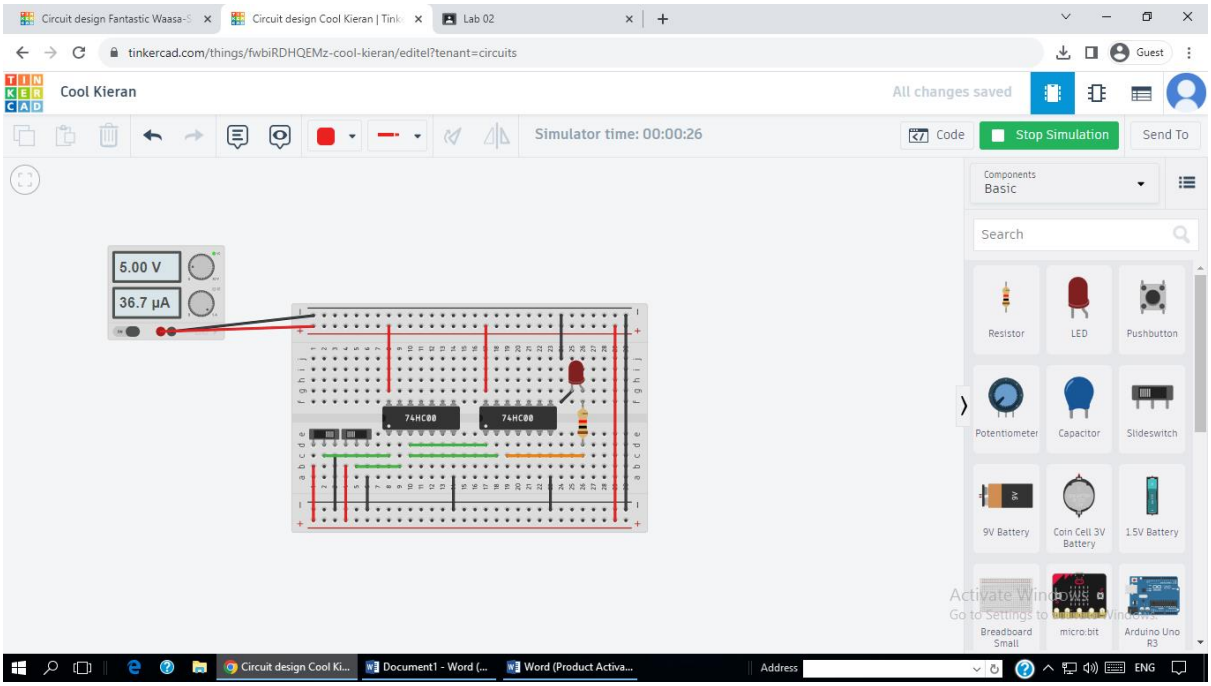
1a)- NAND to NOT :





3b) NAND to AND




Circuit design Fantastic Waasa-S
Circuit design Cool Kieran | Tink
Lab 02
tinkercad.com/things/fwbiRDHQEMz-cool-kieran/editel?tenant=circuits
Guest
Cool Kieran
All changes saved
Simulator time: 00:00:26
Code
Stop Simulation
Send To
Components
Basic
Search
5.00 V
36.7 µA
74HC00
74HC00
Resistor
LED
Pushbutton
Potentiometer
Capacitor
Slideswitch
9V Battery
Coin Cell 3V Battery
1.5V Battery
Breadboard Small
micro:bit
Arduino Uno R3
Activate Windows
Go to Settings to activate Windows.
Circuit design Cool Ki...
Document1 - Word (...
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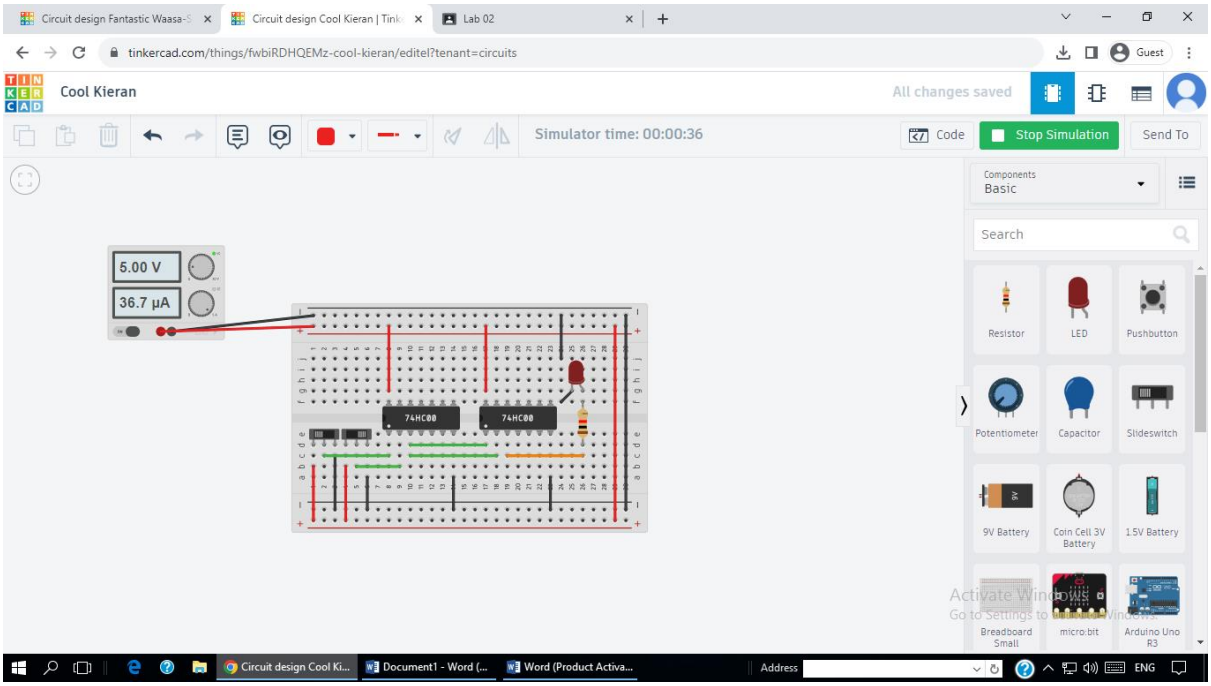
Address
ENG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Circuit design Cool Kieran | Tink
Lab 02
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Guest
Cool Kieran
All changes saved
Simulator time: 00:00:36
Code
Stop Simulation
Send To
Components
Basic
Search
5.00 V
36.7 µA
74HC00
74HC00
Resistor
LED
Pushbutton
Potentiometer
Capacitor
Slideswitch
9V Battery
Coin Cell 3V Battery
1.5V Battery
Breadboard Small
micro:bit
Arduino Uno R3
Activate Windows
Go to Settings to activate Windows.
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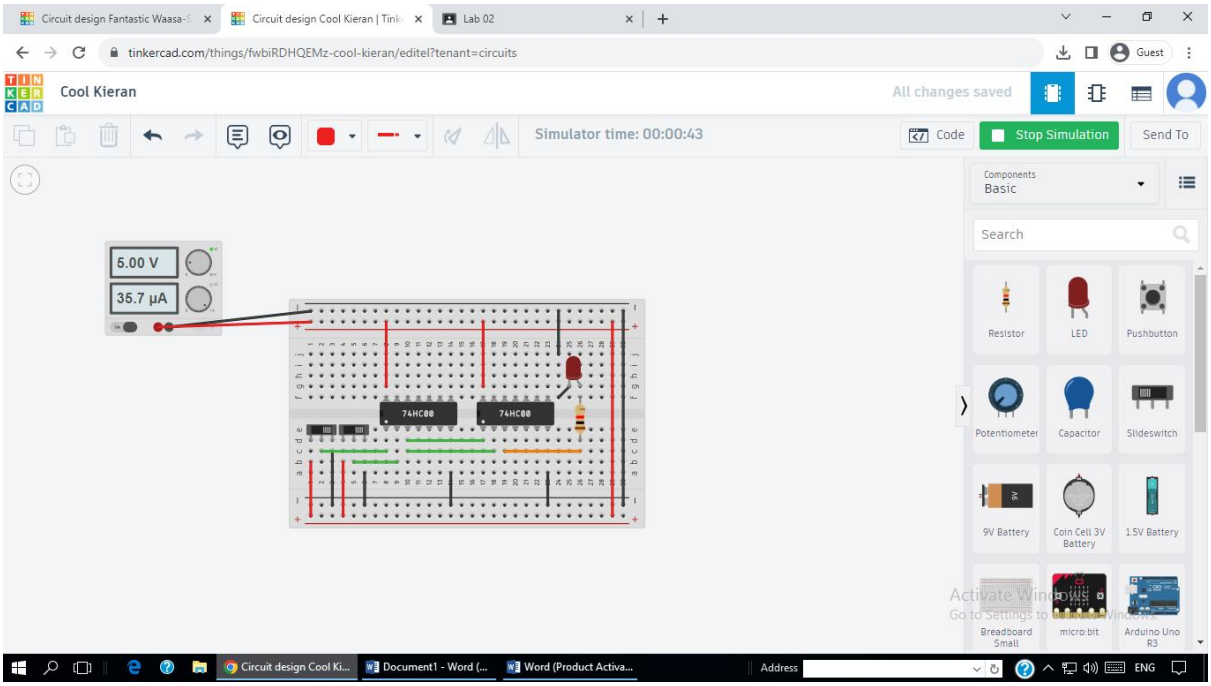
Document1 - Word (...
Word (Product Activa...
Address
ENG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Circuit design Cool Kieran | Tink
Lab 02
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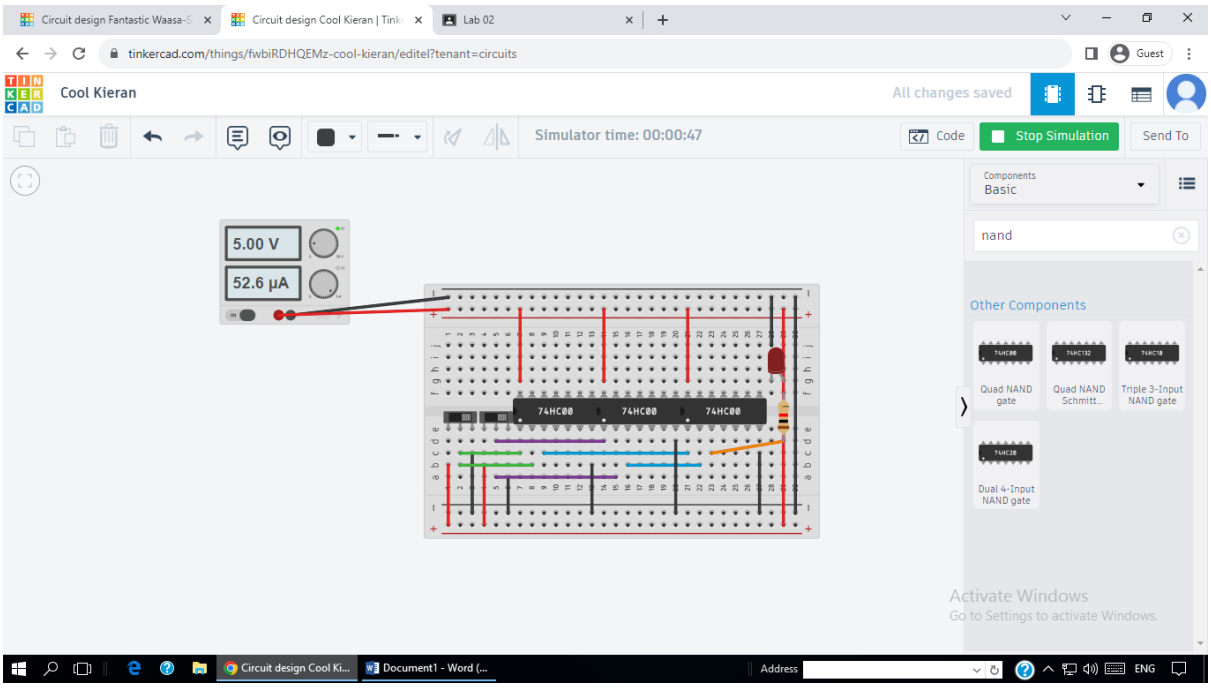
Guest
Cool Kieran
All changes saved
Simulator time: 00:00:43
Code
Stop Simulation
Send To
Components
Basic
Search
5.00 V
35.7 µA
74HC00
74HC00
Resistor
LED
Pushbutton
Potentiometer
Capacitor
Slideswitch
9V Battery
Coin Cell 3V Battery
1.5V Battery
Breadboard Small
micro:bit
Arduino Uno R3
Activate Windows
Go to Settings to activate Windows.
Circuit design Cool Ki...
Document1 - Word (...
Word (Product Activa...
Address
ENG

3b) NAND to OR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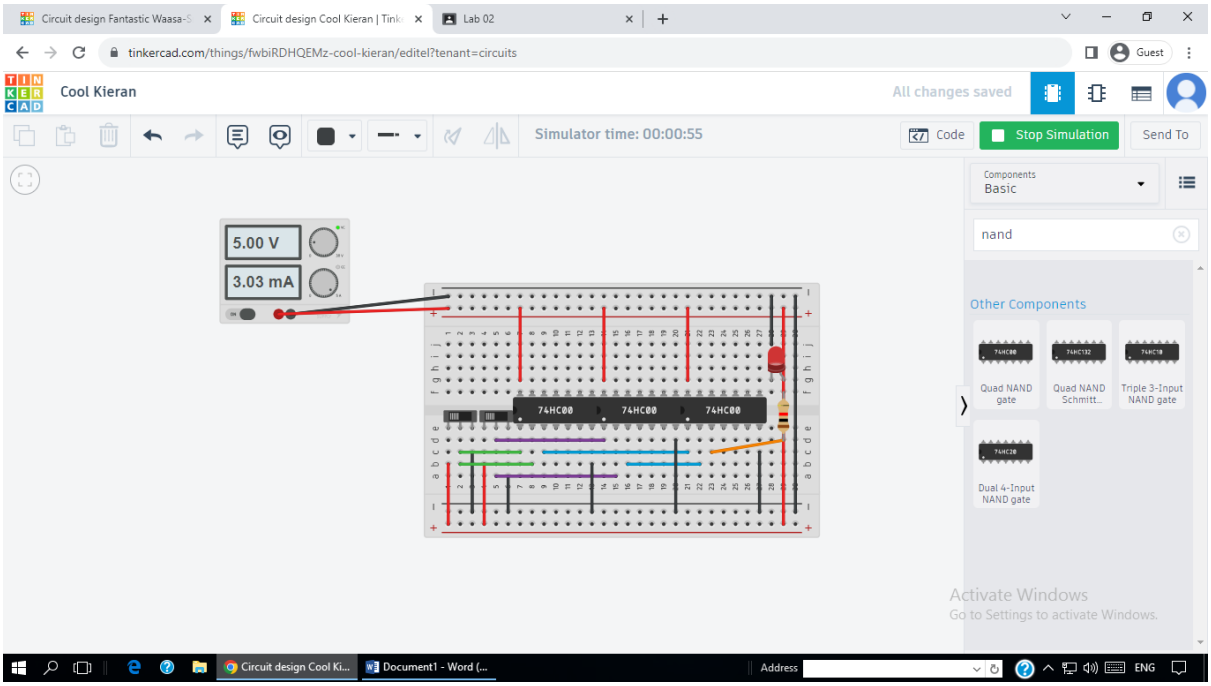
Guest
Cool Kieran
All changes saved
Simulator time: 00:00:47
Code
Stop Simulation
Send To
Components
Basic
nand
Other Components
5.00 V
52.6 µA
74HC00
74HC00
74HC00
Quad NAND gate
Quad NAND Schmitt...
Triple 3-Input NAND gate
Dual 4-Input NAND gate
Activate Windows
Go to Settings to activate Windows.
Circuit design Cool Ki...
Document1 - Word (...
Address
ENG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Circuit design Cool Kieran | Tink
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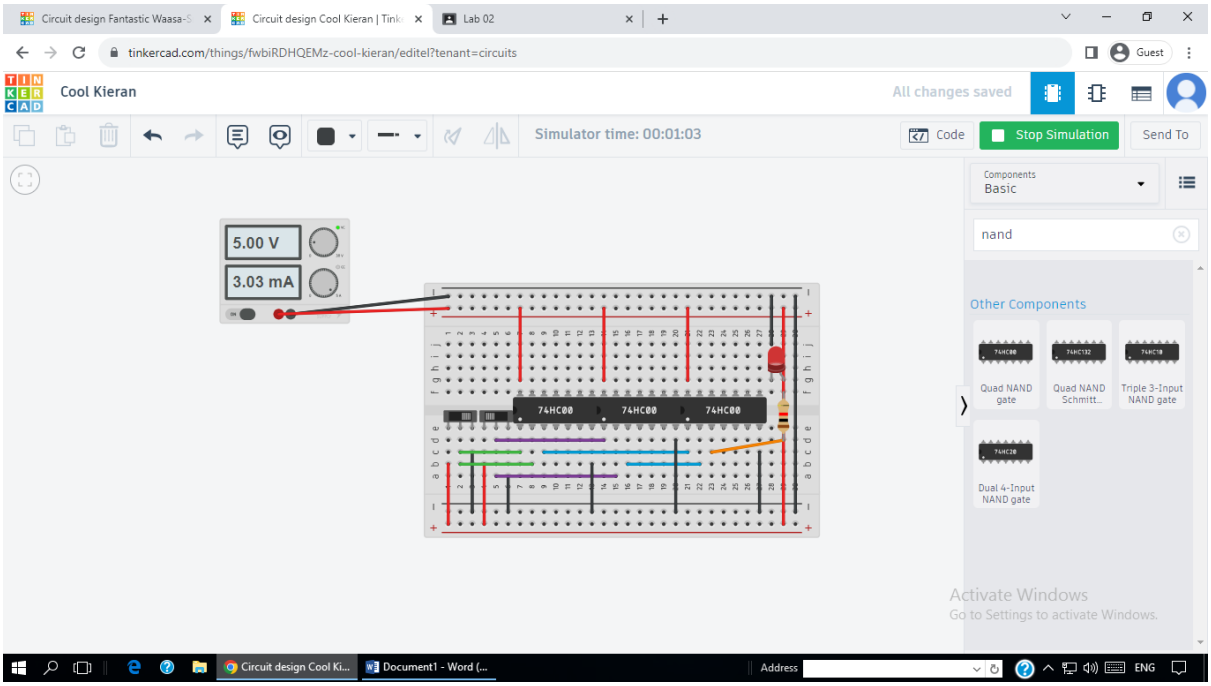
Guest
Cool Kieran
All changes saved
Simulator time: 00:00:55
Code
Stop Simulation
Send To
Components
Basic
nand
Other Components
Quad NAND gate
Quad NAND Schmitt...
Triple 3-Input NAND gate
Dual 4-Input NAND gate
5.00 V
3.03 mA
74HC00
74HC00
74HC00
Activate Windows
Go to Settings to activate Windows.
Circuit design Cool Ki...
Document1 - Word (...
Address
ENG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Circuit design Cool Kieran | Tink
Lab 02
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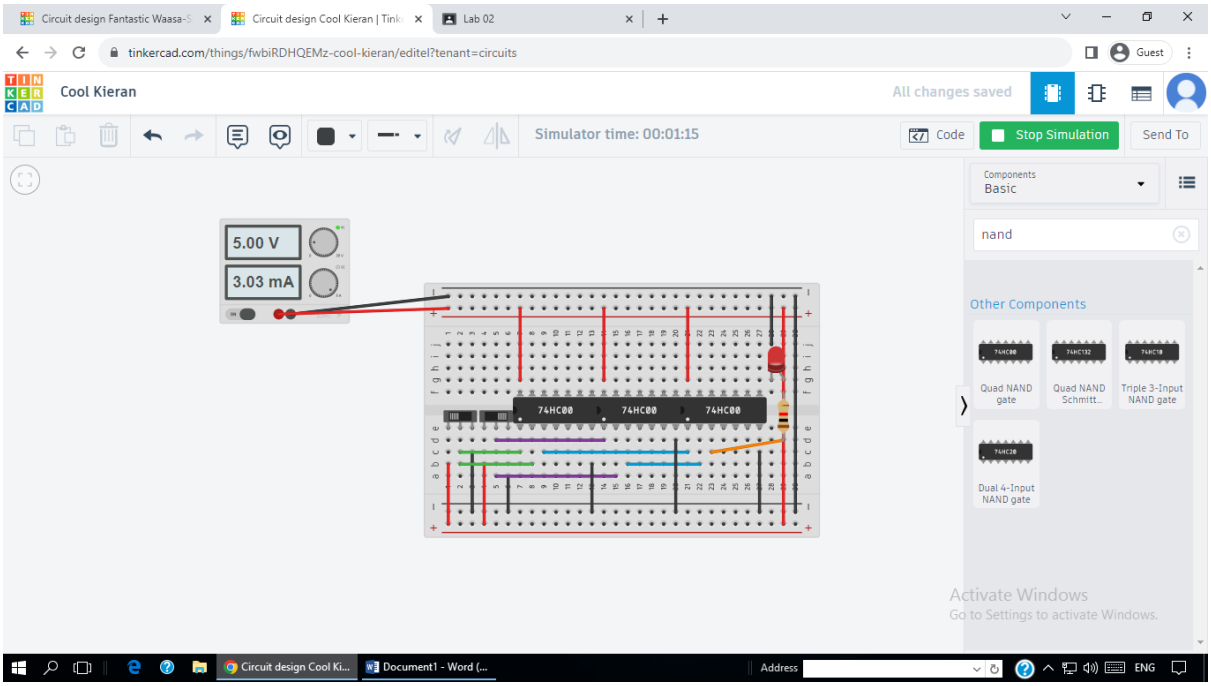
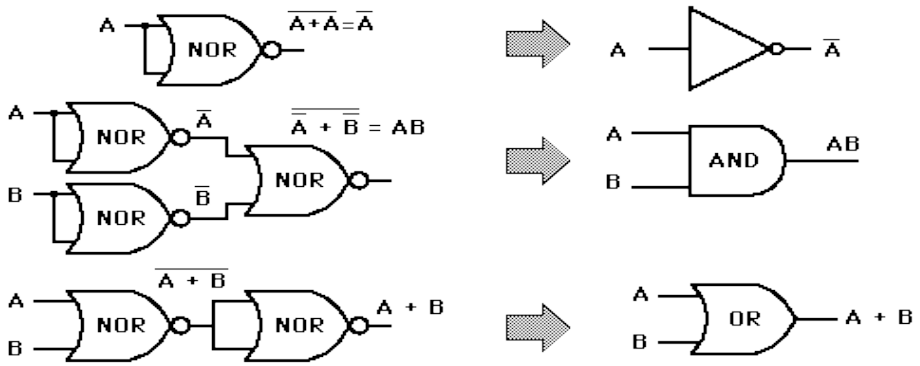
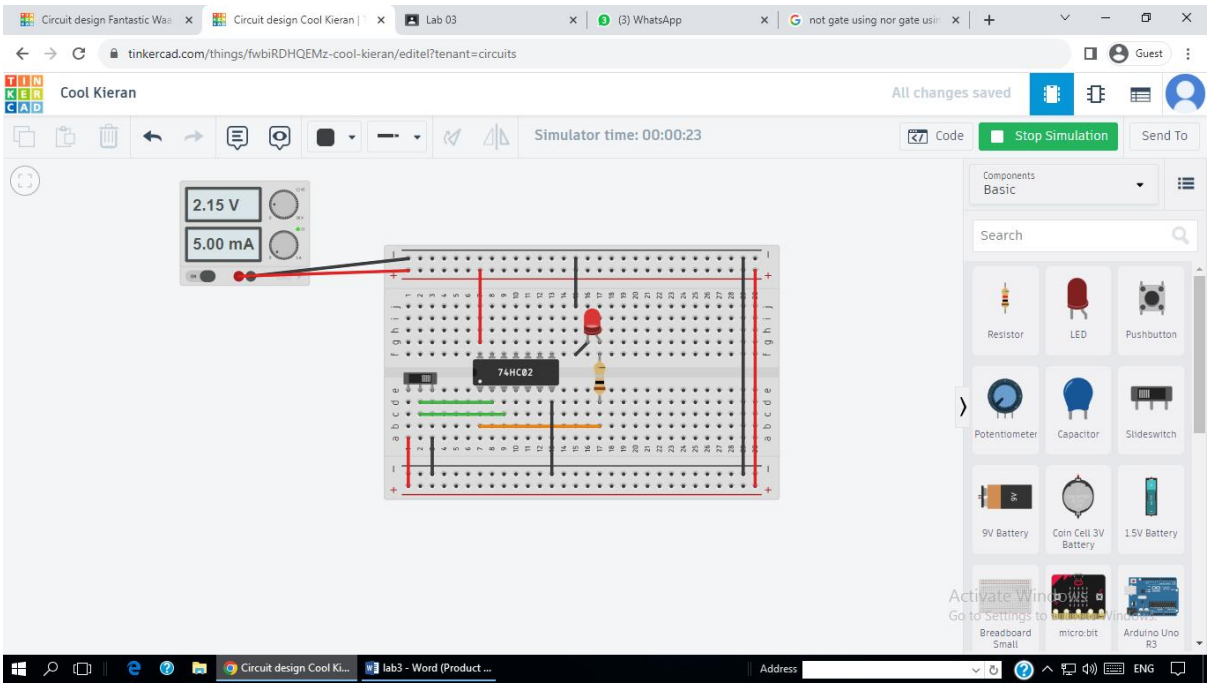
Guest
Cool Kieran
All changes saved
Simulator time: 00:01:03
Code
Stop Simulation
Send To
Components
Basic
nand
Other Components
Quad NAND gate
Quad NAND Schmitt...
Triple 3-Input NAND gate
Dual 4-Input NAND gate
5.00 V
3.03 mA
74HC00
74HC00
74HC00
Activate Windows
Go to Settings to activate Windows.
Circuit design Cool Ki...
Document1 - Word (...
Address
ENG

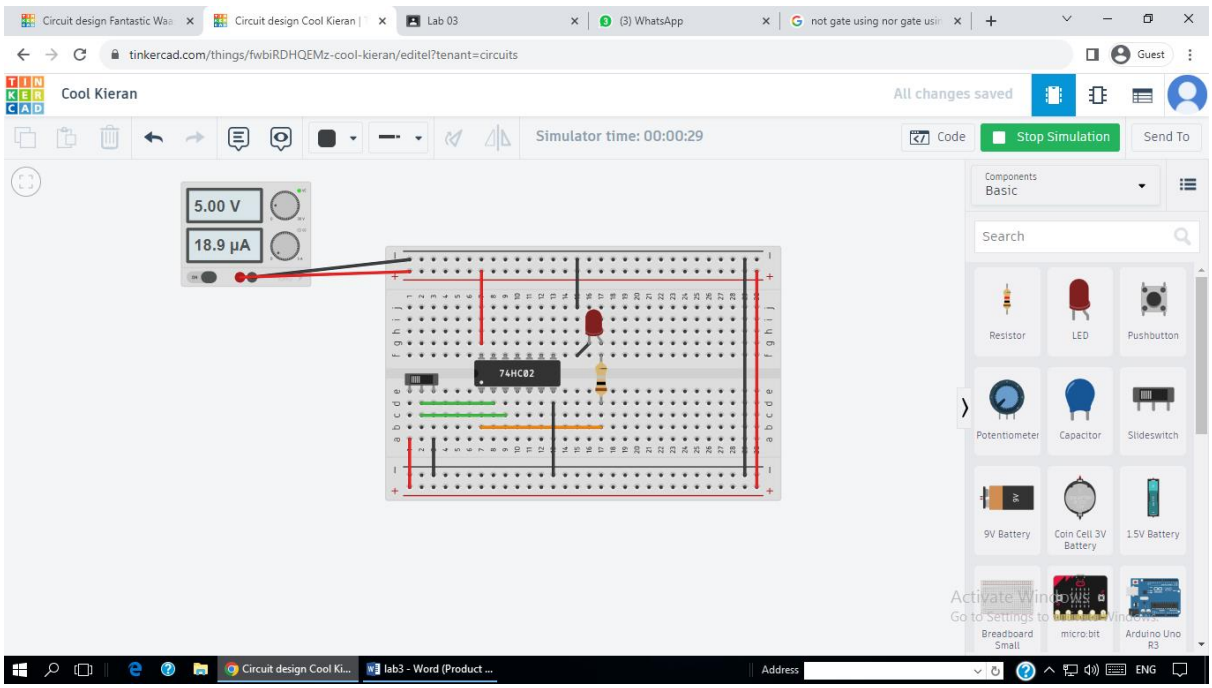


3.2. Working with NOR GATE

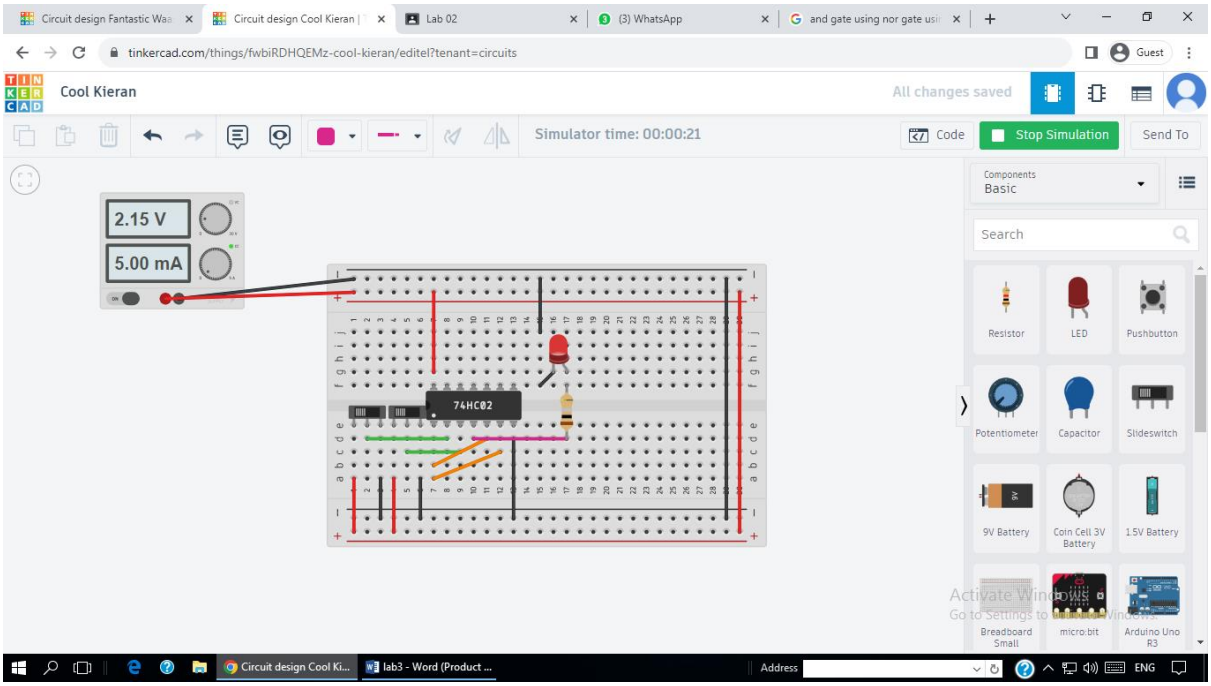


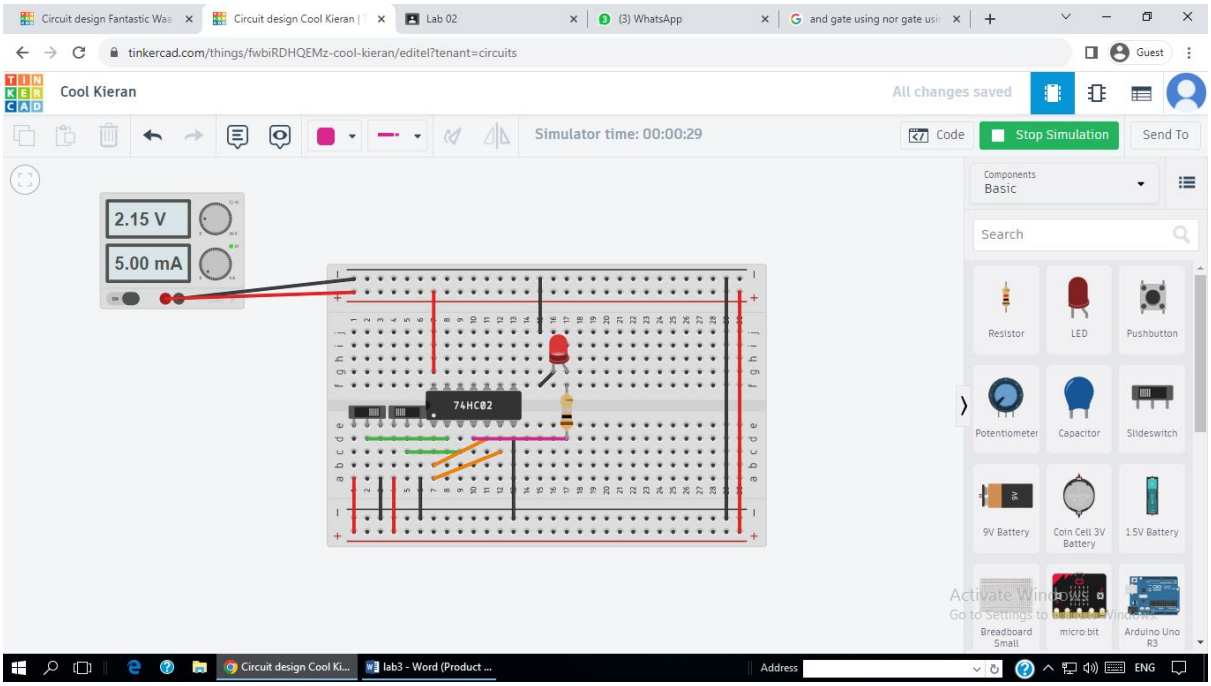
3.4 a Nand to NOT:

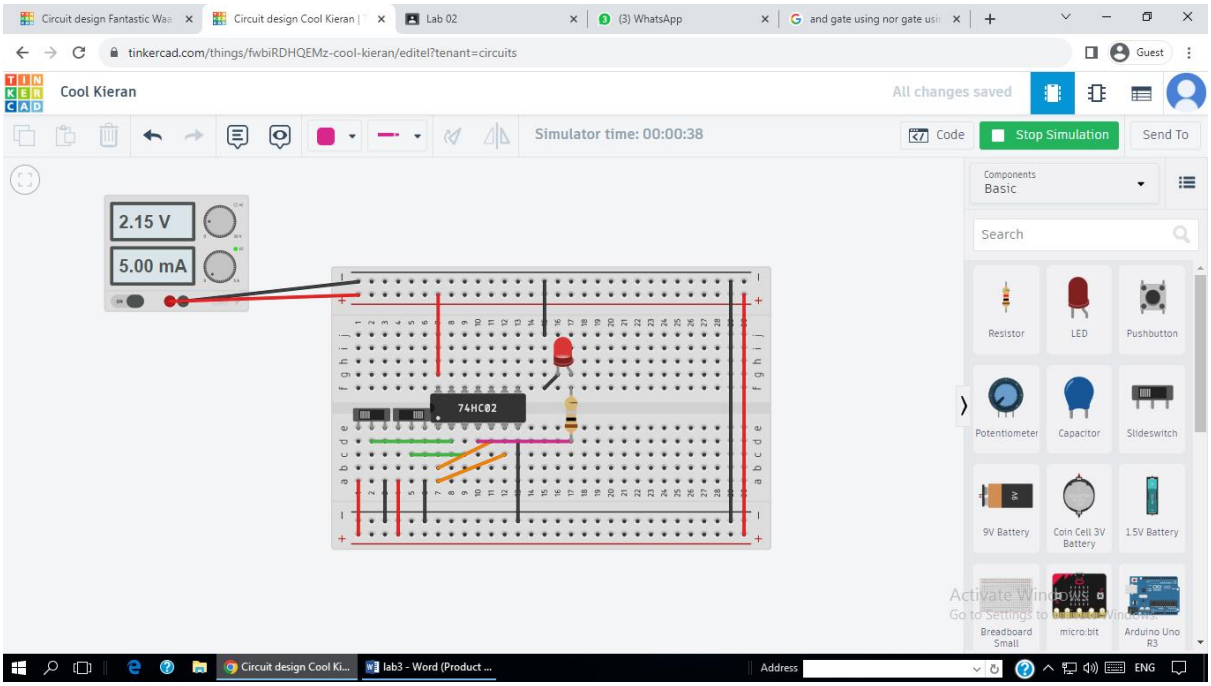


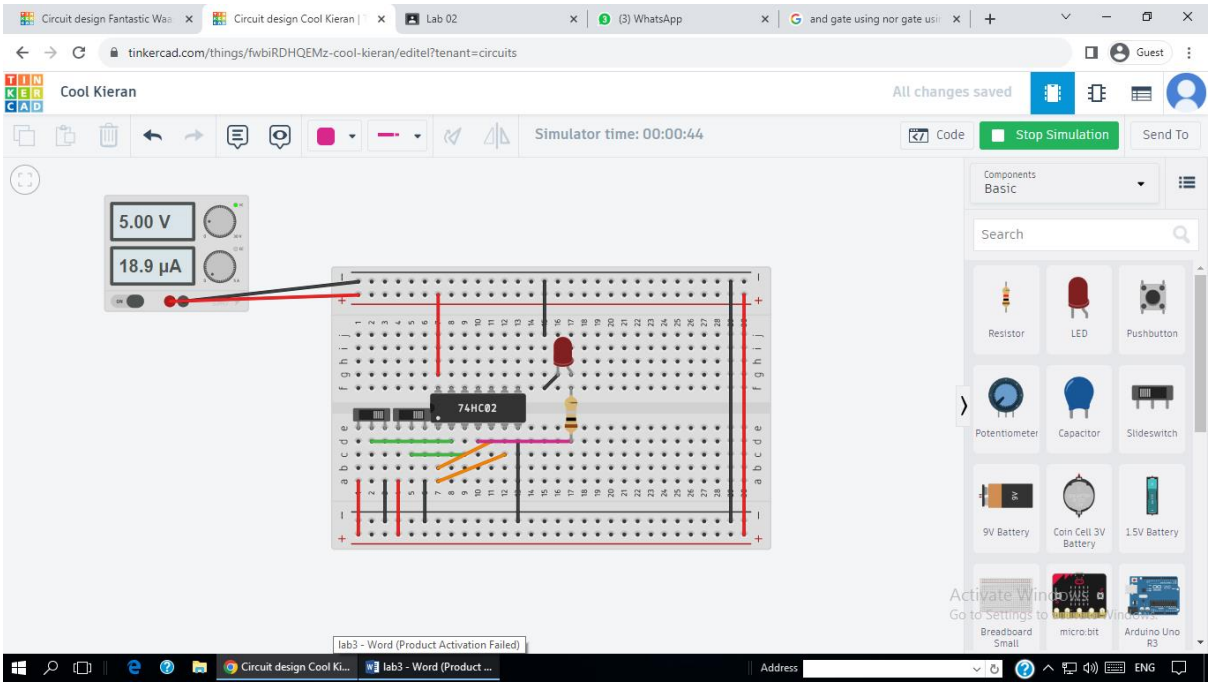


3.4 b) Nand to OR

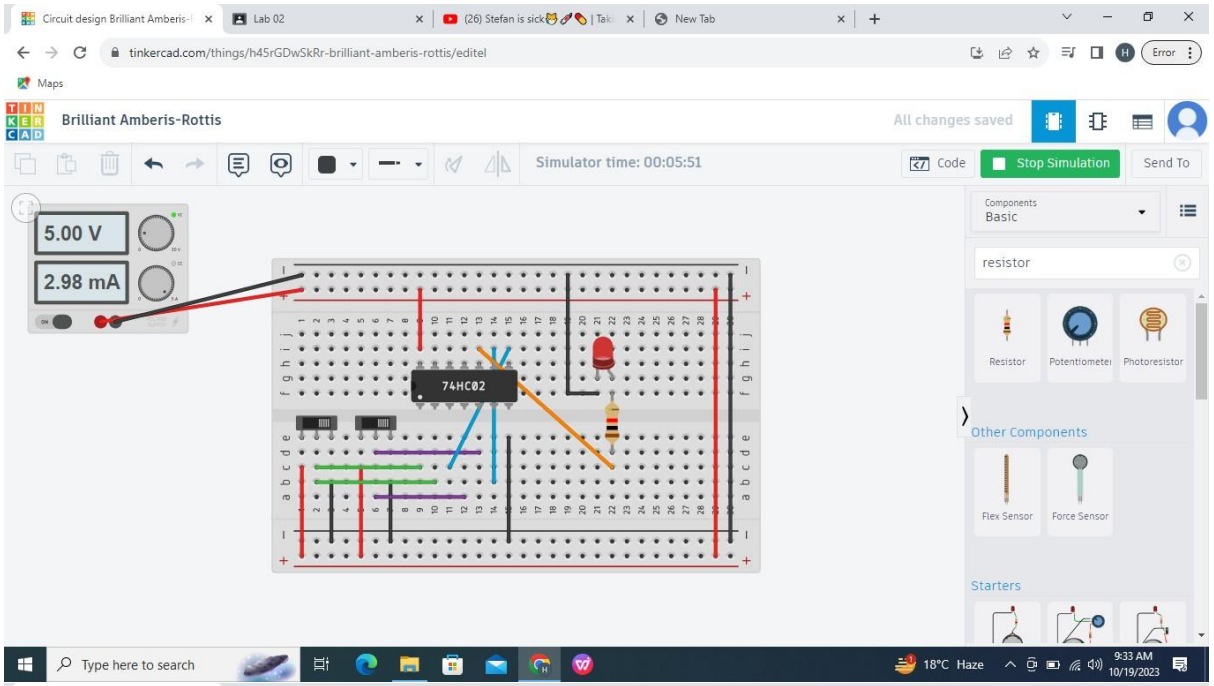








3.4 b) Nand to AND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Lab 02
(26) Stefan is sick
New Tab
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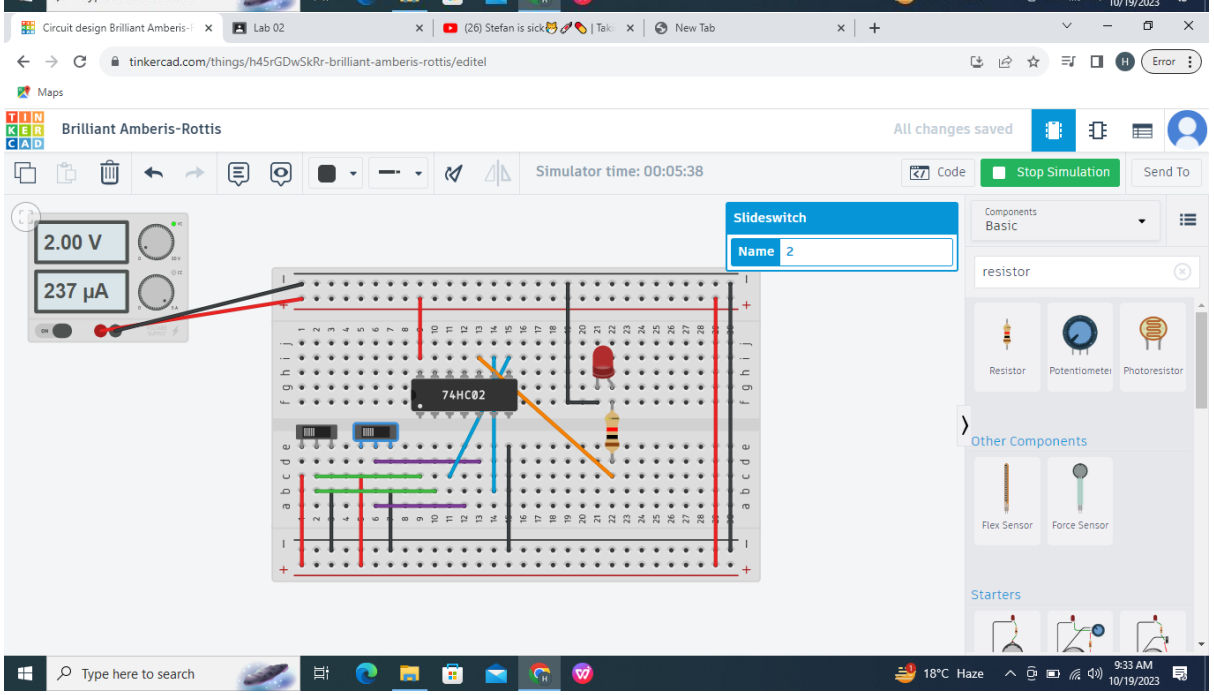
Maps
Brilliant Amberis-Rottis
All changes saved
Simulator time: 00:05:51
Code
Stop Simulation
Send To
5.00 V
2.98 mA
74HC02
Components
Basic
resistor
Resistor
Potentiometer
Photoresistor
Other Components
Flex Sensor
Force Sensor
Starters
Type here to search
18°C Haze
9:33 AM
10/19/2023


Circuit design Brilliant Amberis-
Lab 02
(26) Stefan is sick
New Tab
tinkercad.com/things/h45rGDwSkRr-brilliant-amberis-rottis/editel
Maps
Brilliant Amberis-Rottis
All changes saved
Simulator time: 00:05:38
Code
Stop Simulation
Send To
2.00 V
237 µA
Slideswitch
Name
2
74HC02
Components
Basic
resistor
Resistor
Potentiometer
Photoresistor
Other Components
Flex Sensor
Force Sensor
Starters
Type here to search
18°C Haze
9:33 AM
10/19/2023