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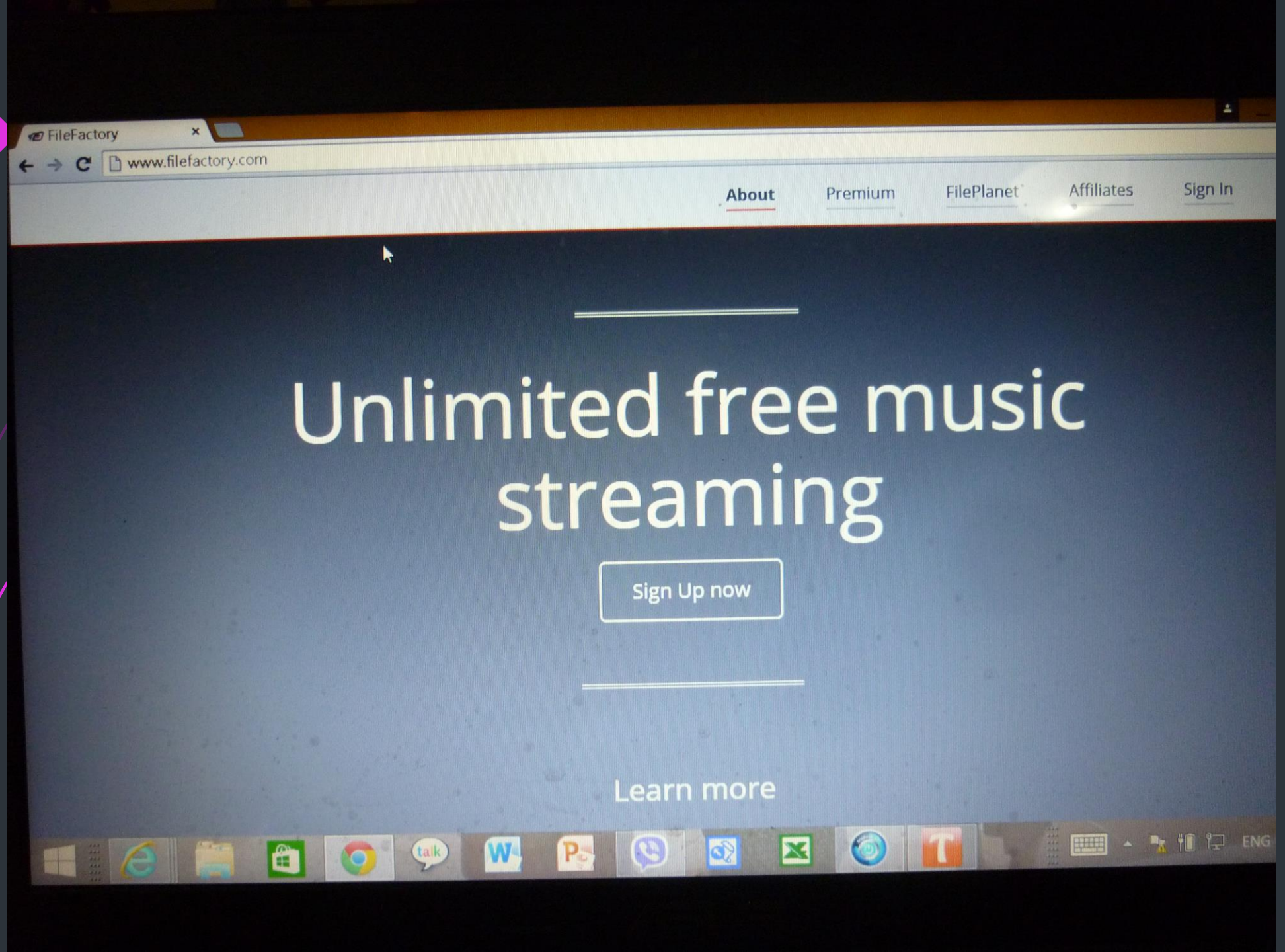
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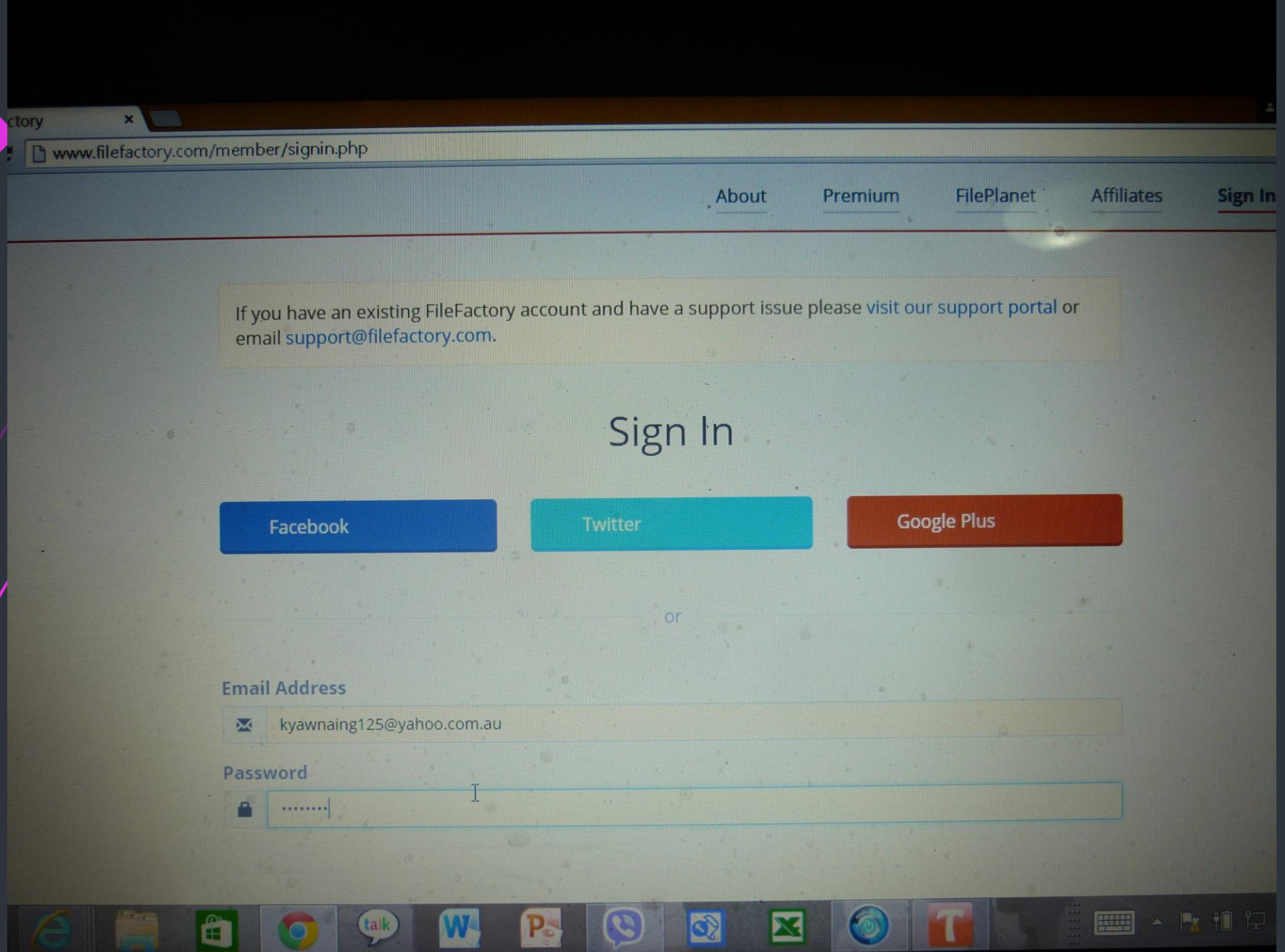
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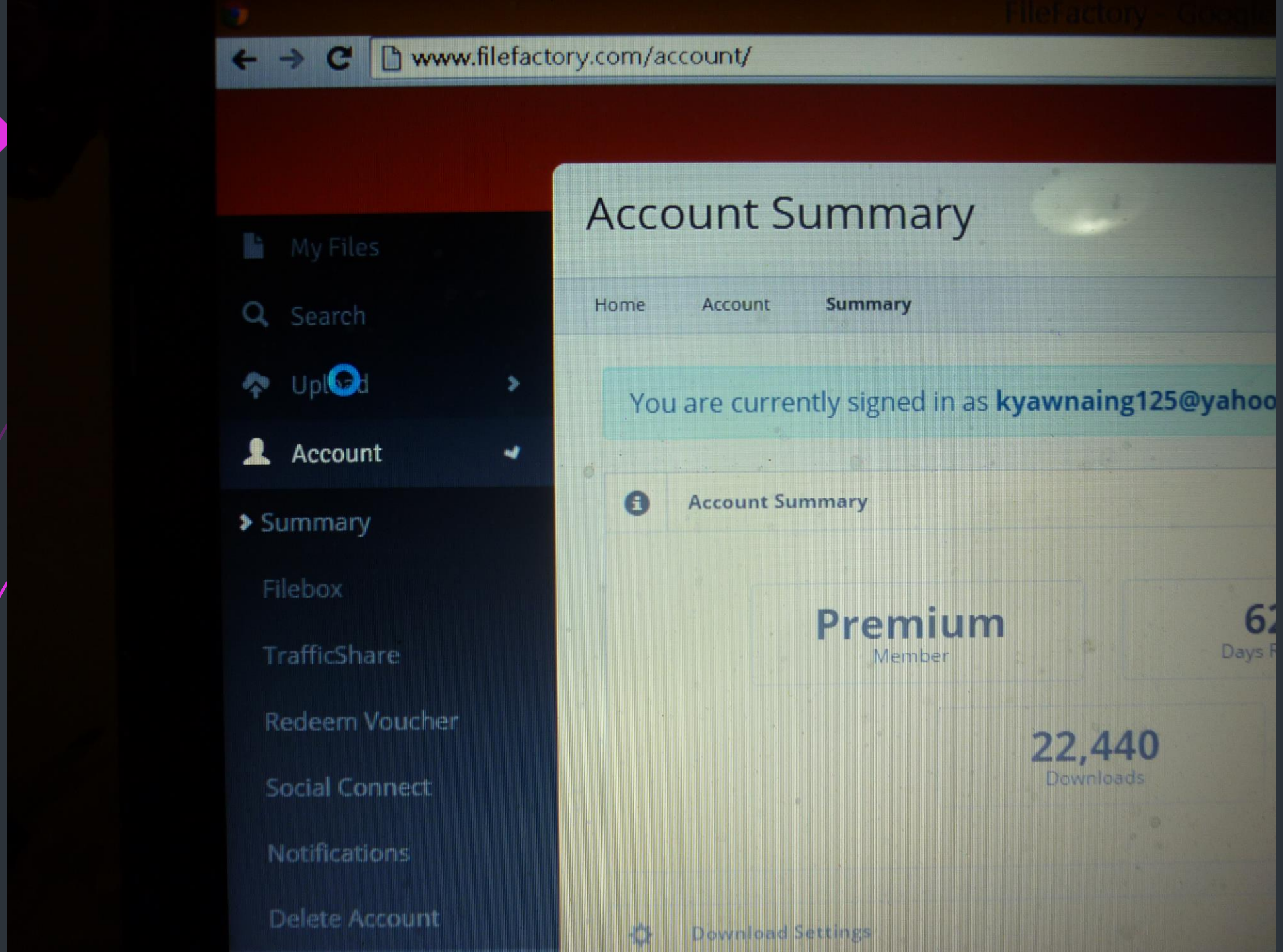
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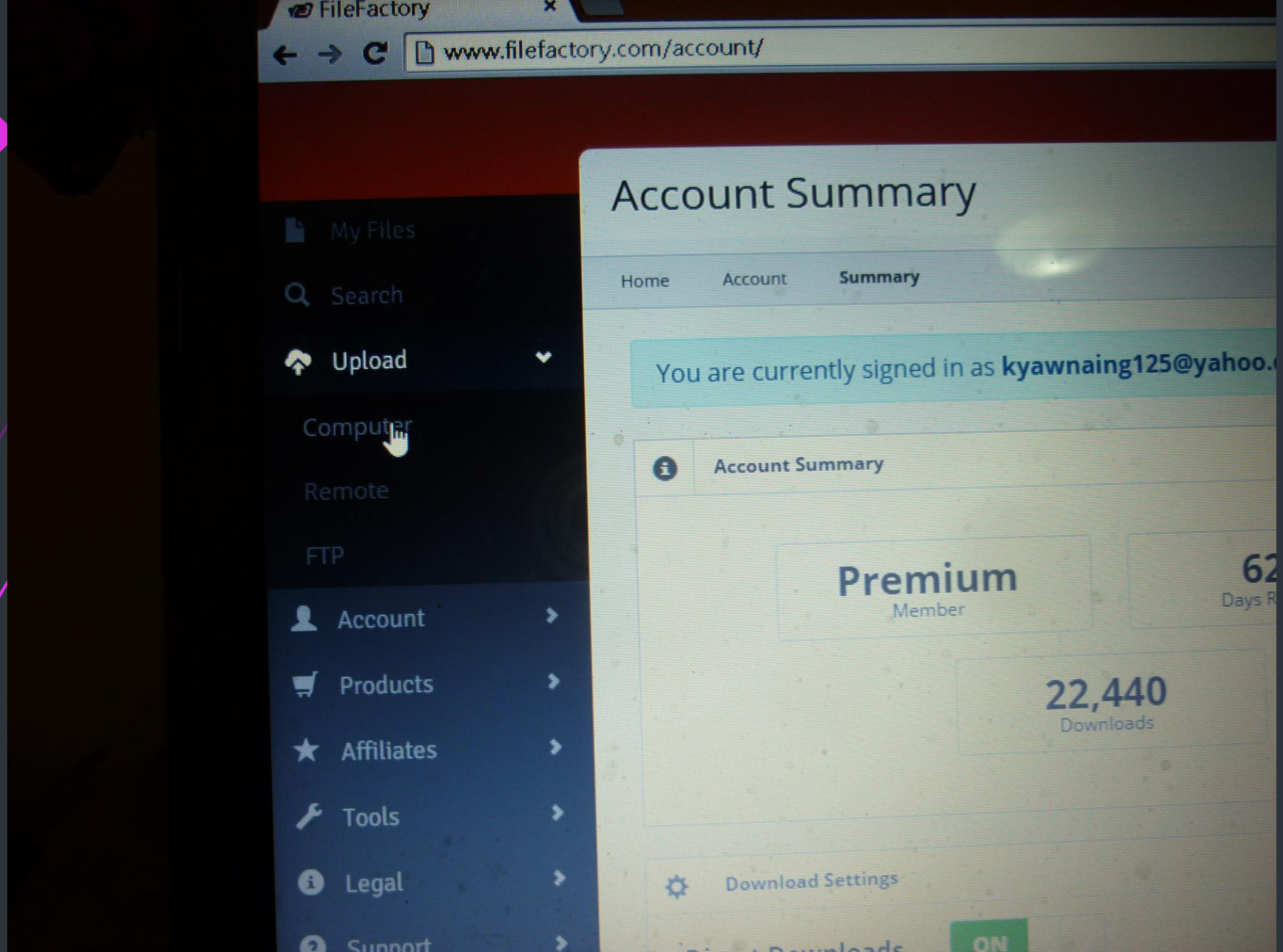
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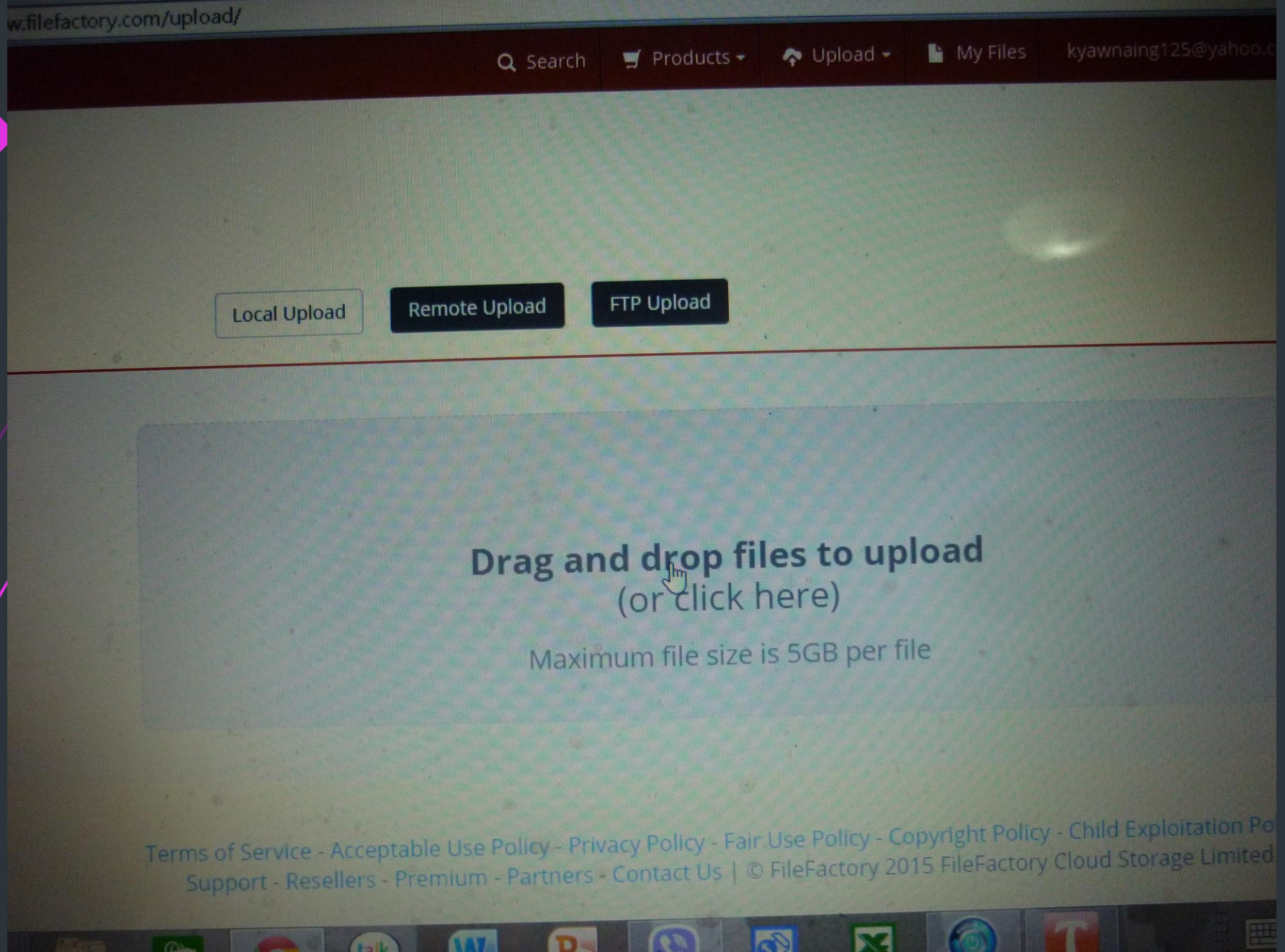
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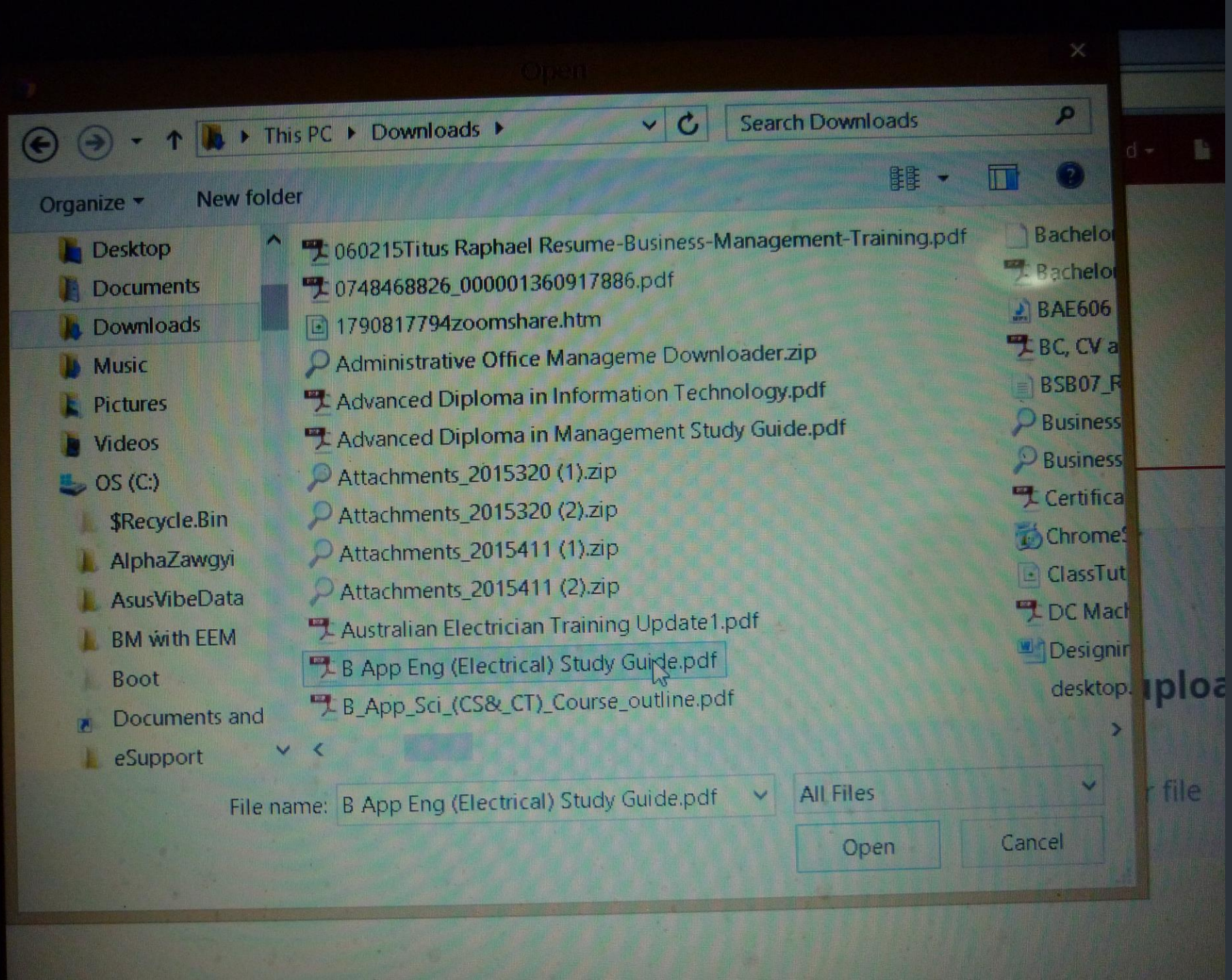
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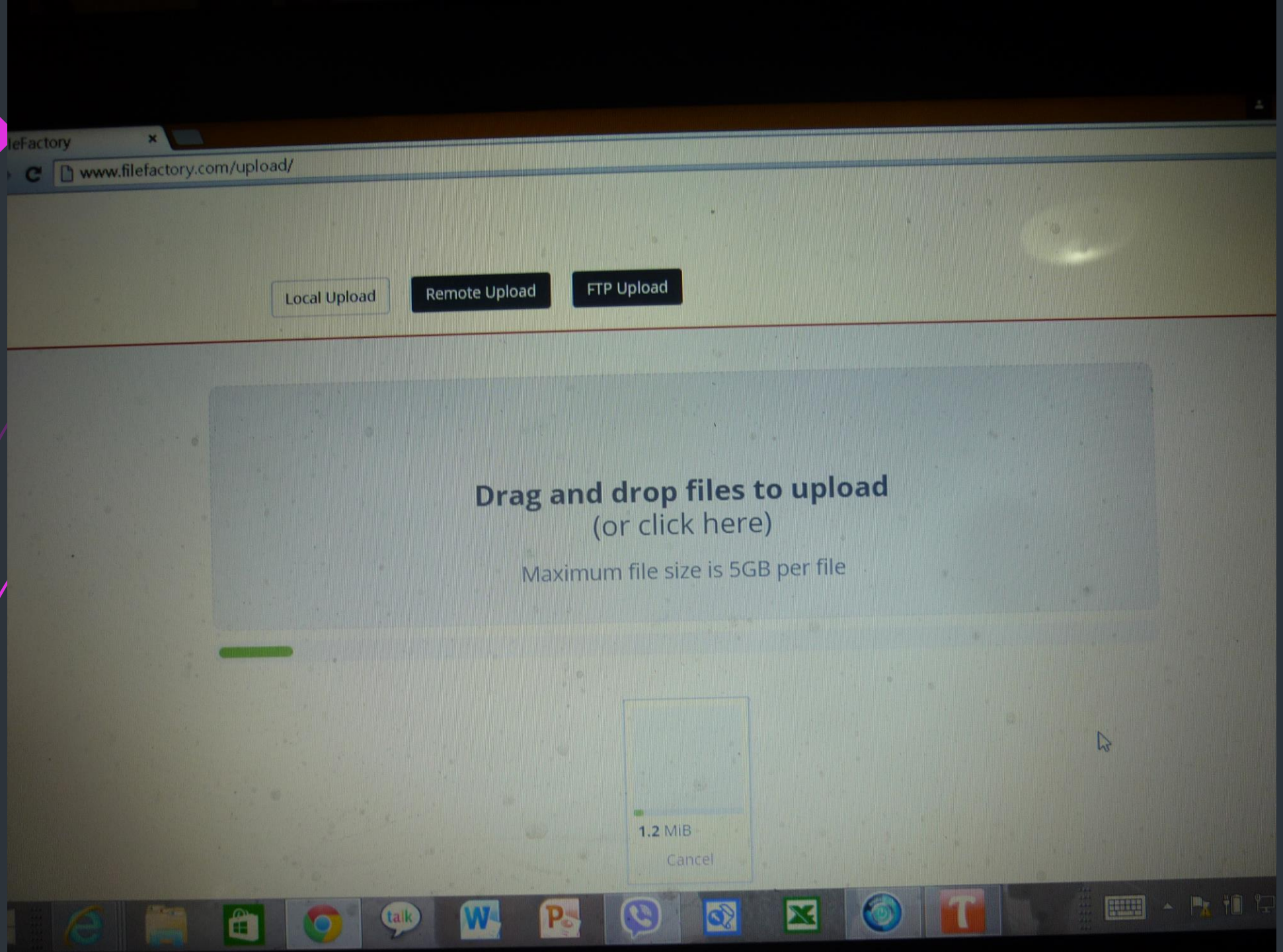
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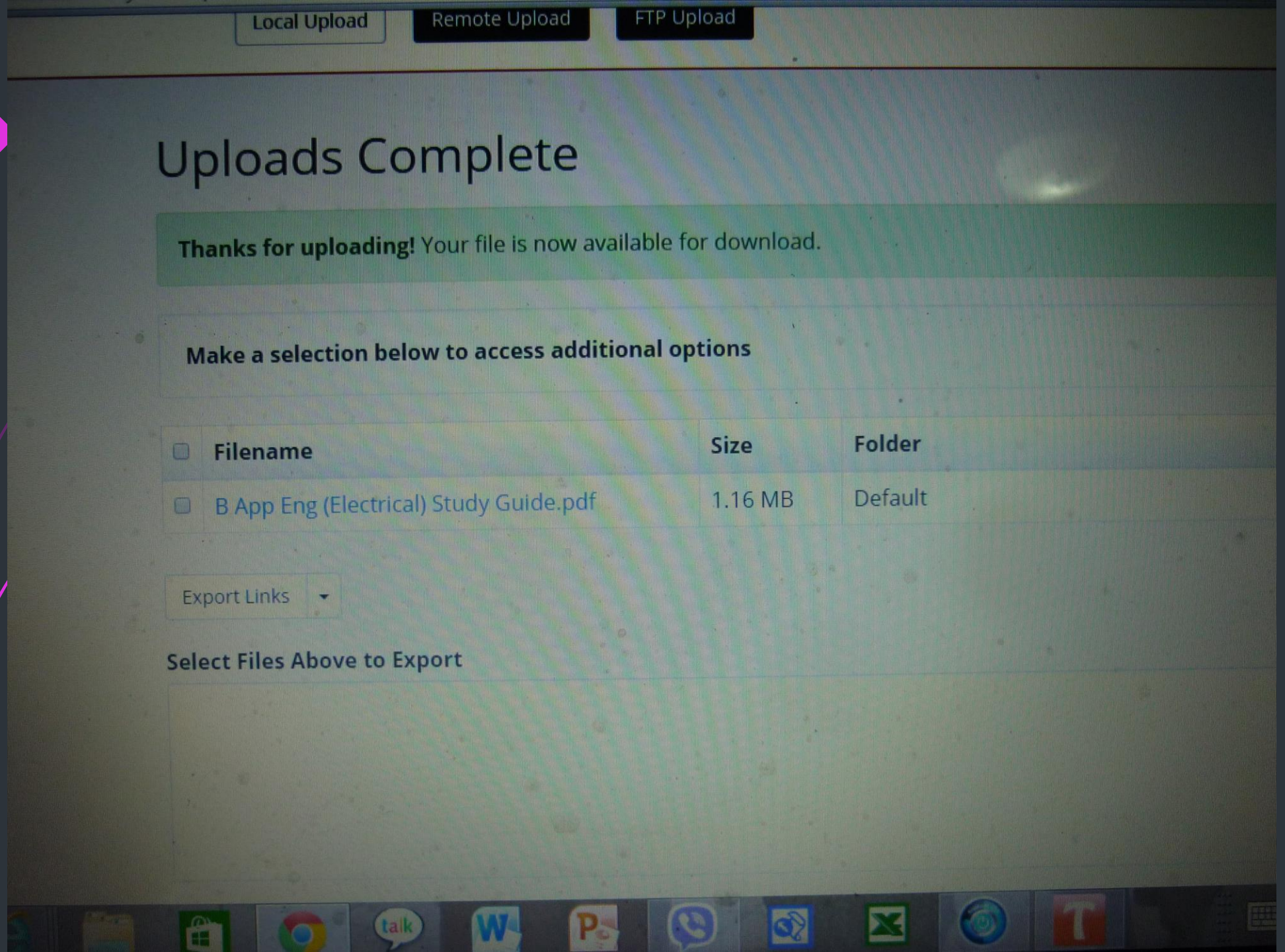
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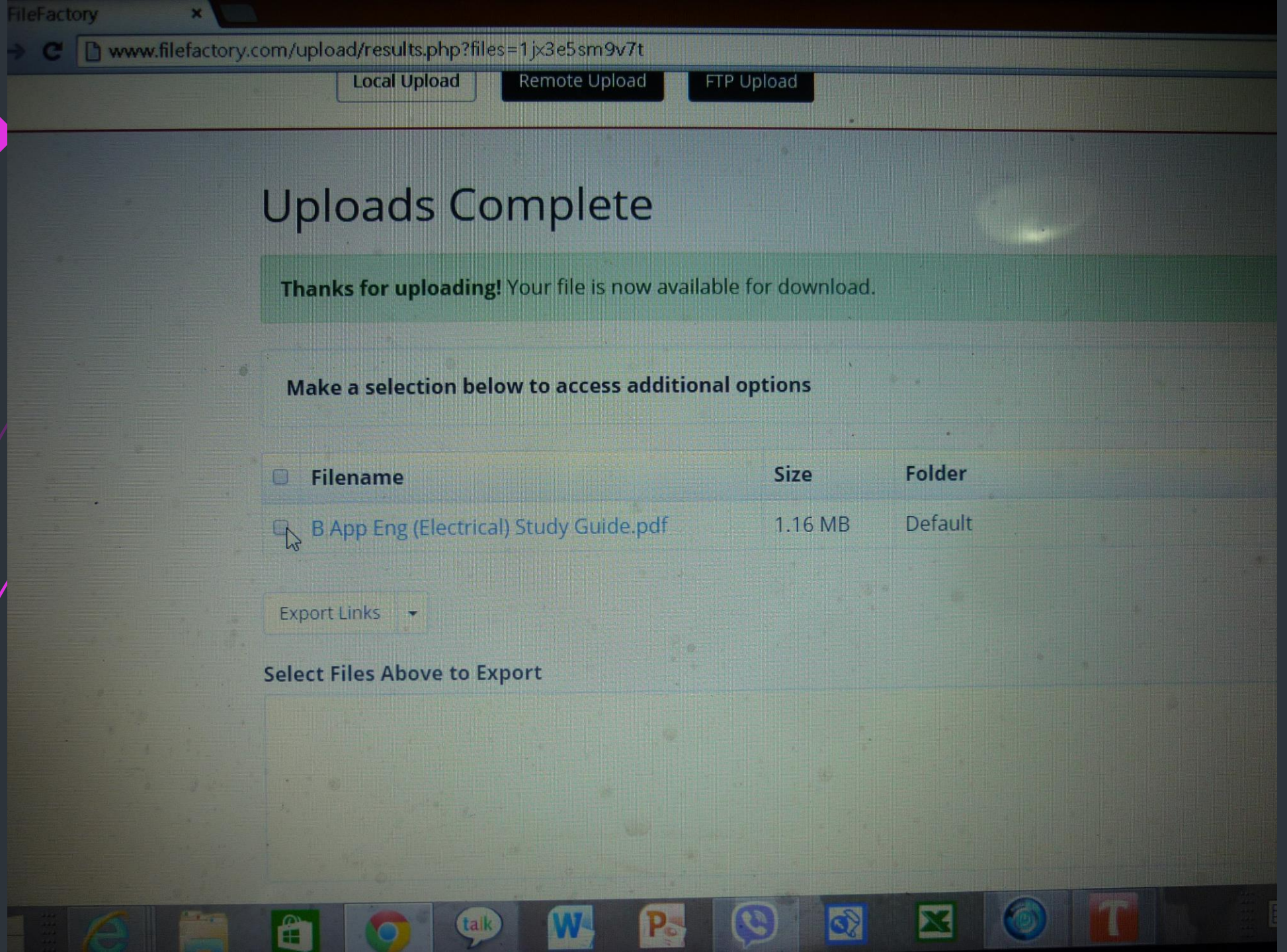
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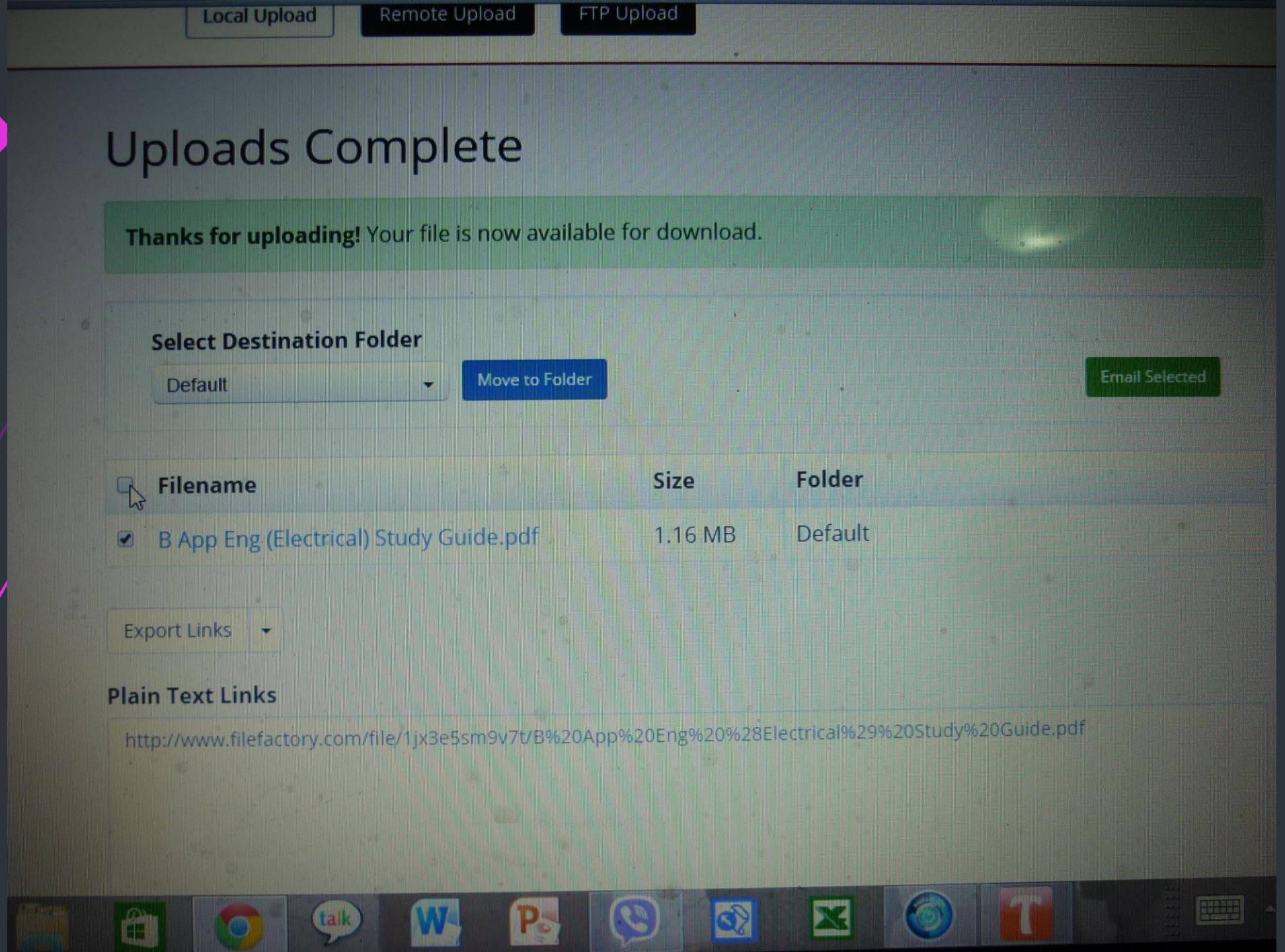
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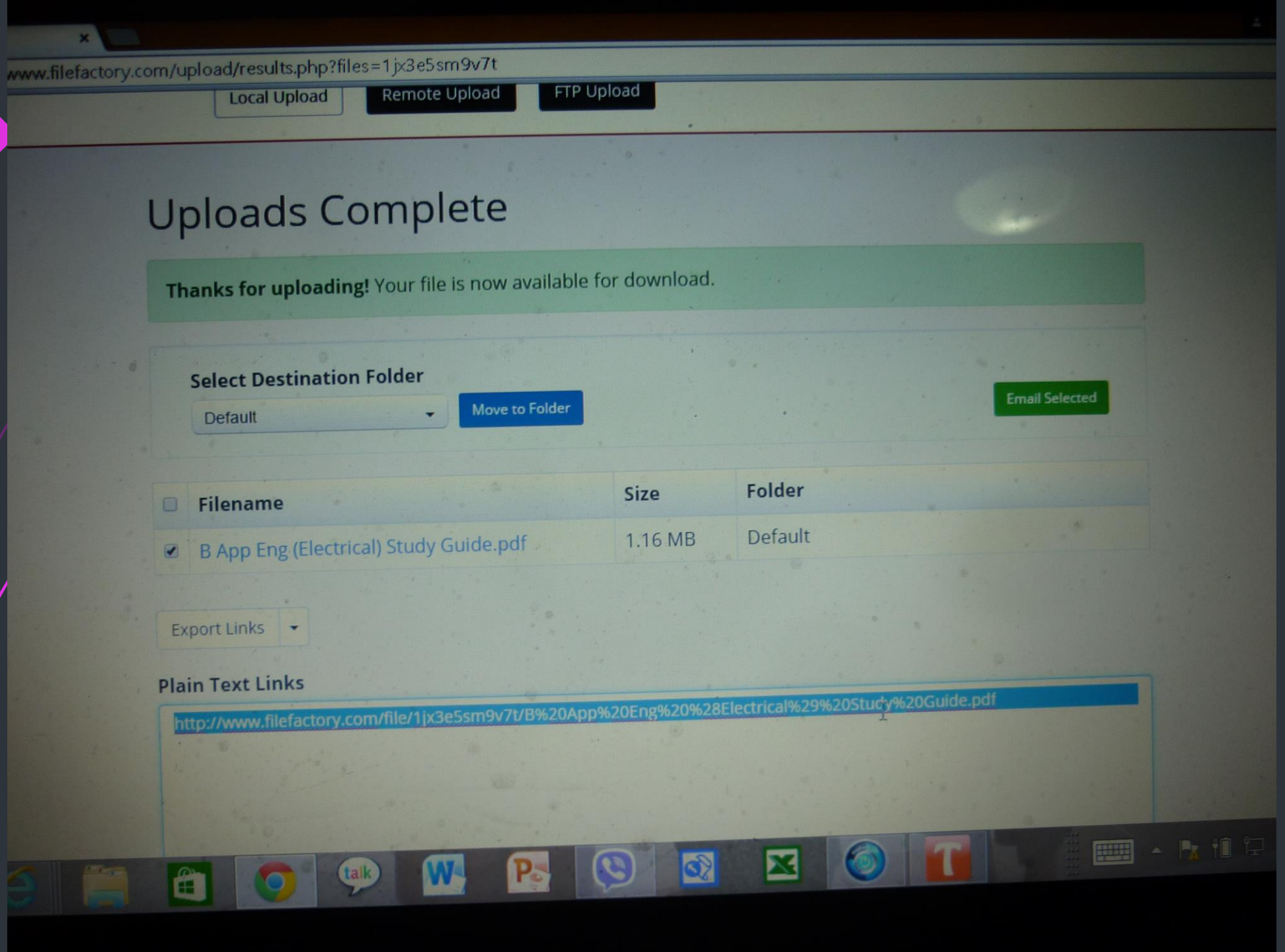
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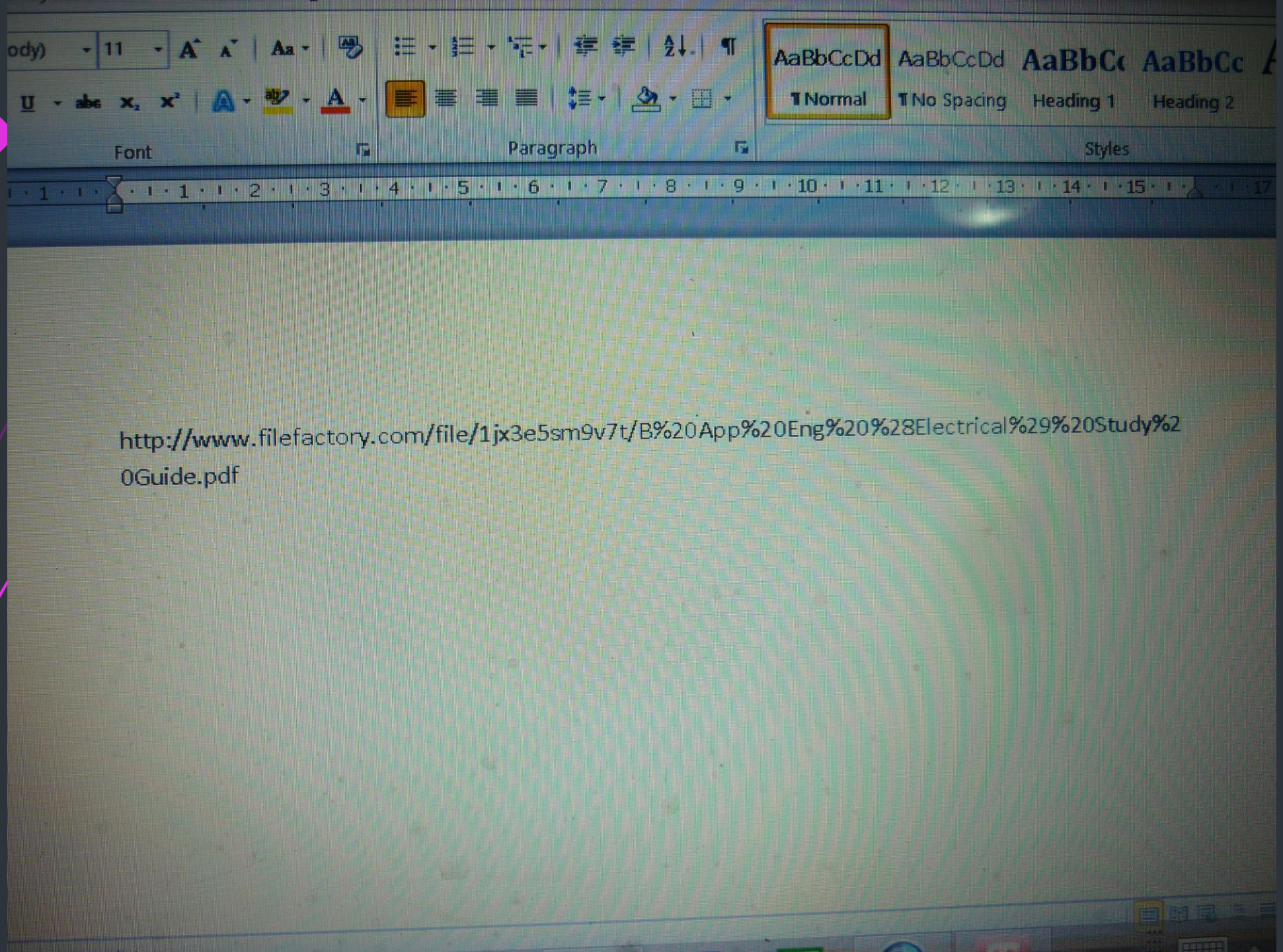
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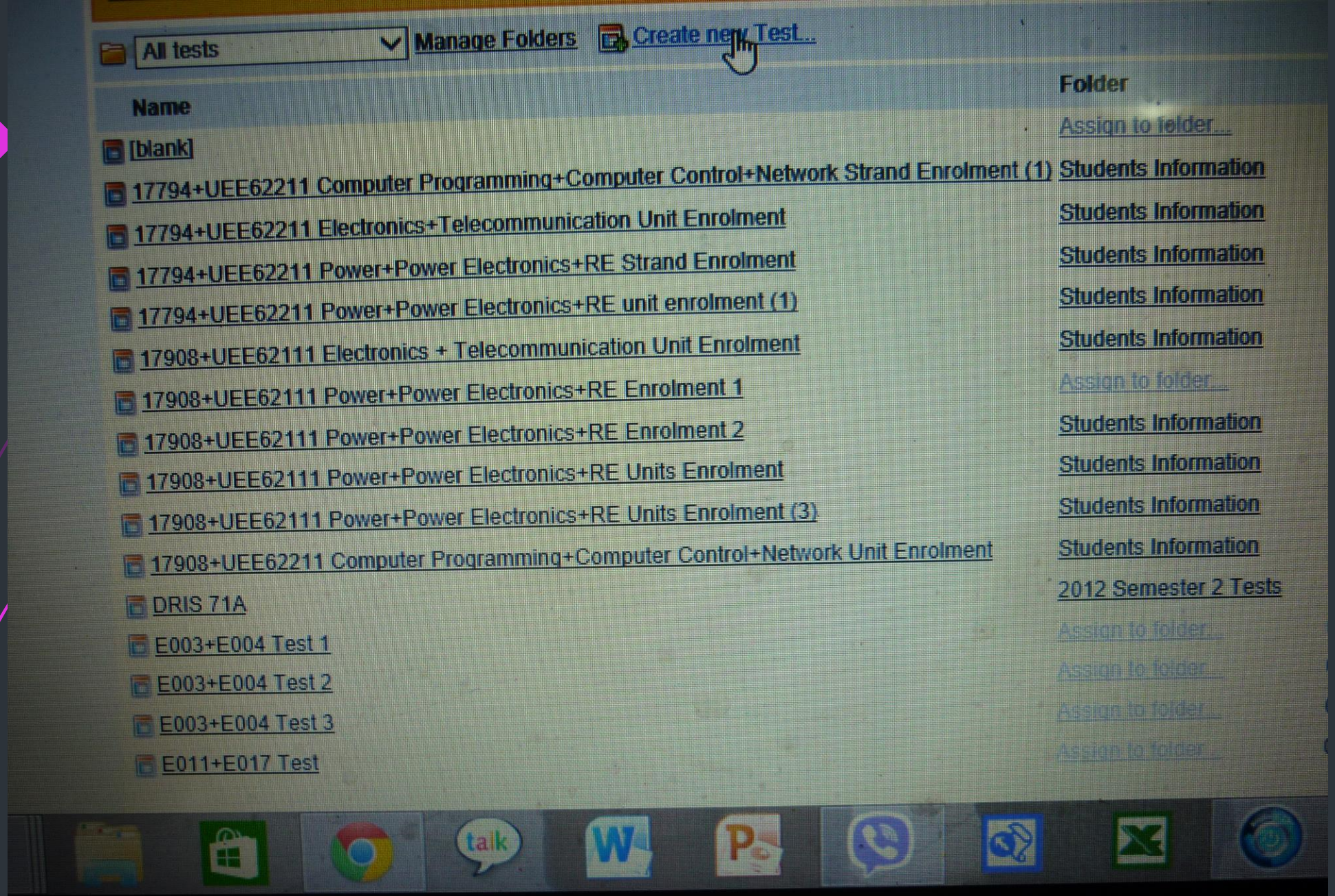
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G042-Transmission Lines Test—Semester 2-2012

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G042 Online Test

Ref352

Circuit breaker is

A	To cut off the circuit when fault occurs	B	To cool the arc after disconnecting the circuit
C	To reclose the switch	D	All above
	Answer		

Ref354

Find the input impedance and VSWR of a transmission line 4.3λ long when Zo=100Ω & Z2=200-j150Ω

A	1+j2 Ω, 0.592 λ	B	2-j1.5 Ω, 0.592 λ
C	3+j4 Ω, 1.6 λ	D	3-j4 Ω, 3.6 λ

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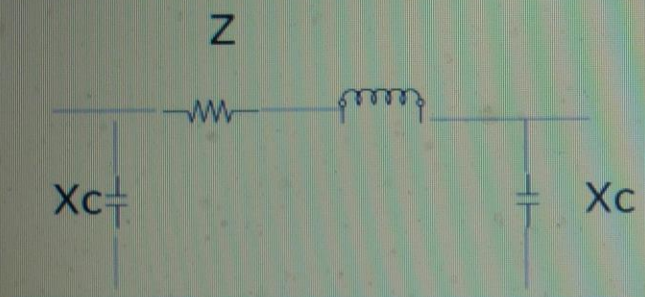
Find:

j150Ω

A	1+j2 Ω, 0.592 λ	B	2-j1.5 Ω, 0.592 λ
C	3+j4 Ω, 1.6 λ	D	3-j4 Ω, 3.6 λ
	Answer		

Ref356



Z = 13+ j 92.6 Ω, Xc= -j2700 Ω

Find A, B, C, D constants

A	A=1.8, B= 180, C =0.0007, D= 1.8	B	A=2, B= 360, C =0.0012, D= 2
C	A=3, B= 400, C =0.015, D= 5	D	A=0.967, B= 93.5, C =0.0007, D=0.967
	Answer		

Ref358

A 50Ω transmission line is connected to a load impedance 75+j60Ω. The forward wave voltage RMS value on line is 25V. Calculate

(a) Power delivered to resistive part of load impedance

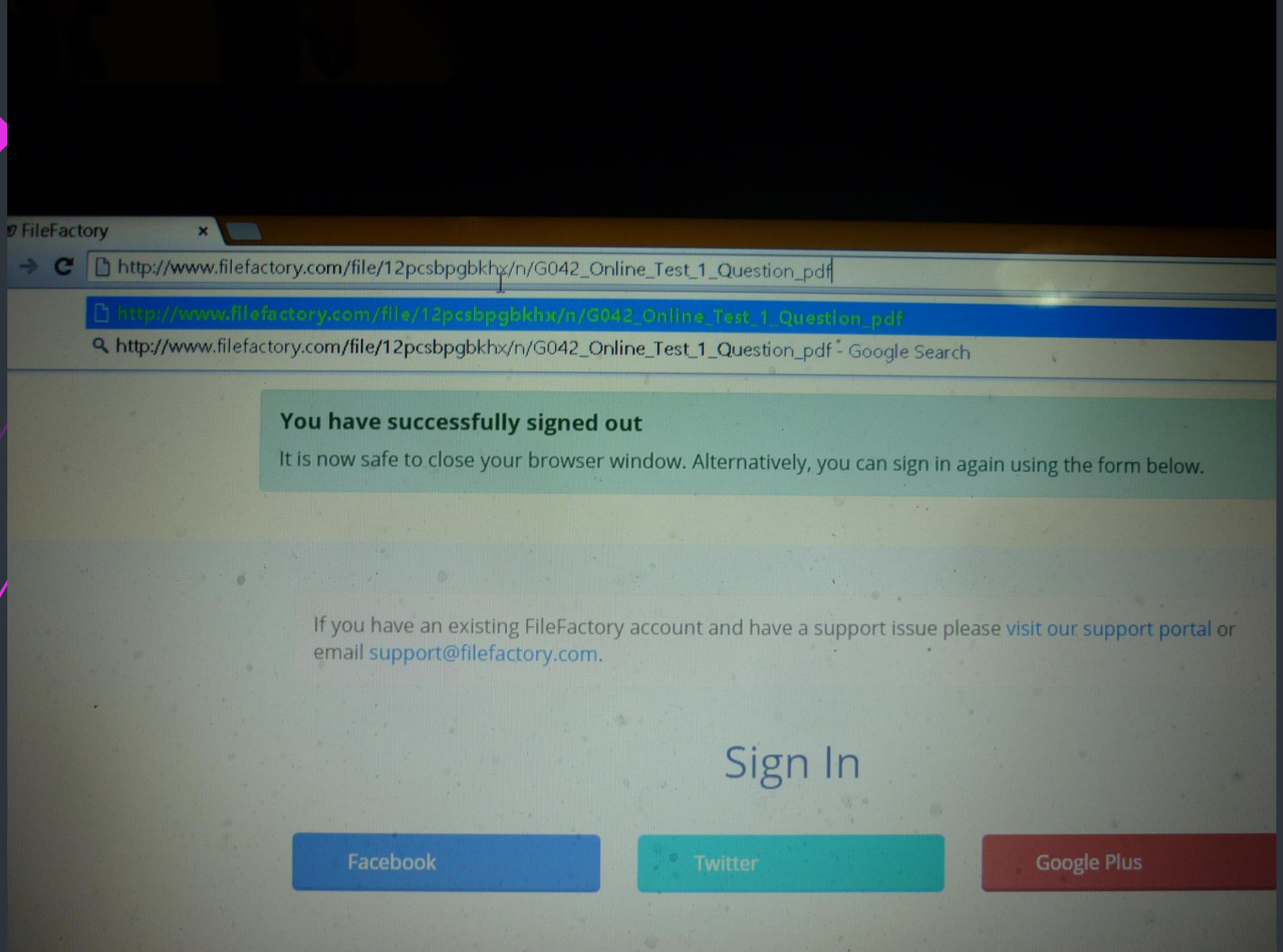
(b) RMS current in impedance reflected wave voltage RMS size

(c) Peak voltage , forward and backward waves

(d) Voltage standing wave ratio (VSWR)

(e) Return loss in decibel

A	12.5W, 0.101A, 35.6V, 16.57V, 2.764,4.4dB	B	25W, 0.38A, 70V, 32V, 5.3,8.8dB
C	5W, 0.39A, 70V, 16V, 3, 4dB	D	25W, 0.38A, 40V, 32V, 2.764,4.4dB
	Answer		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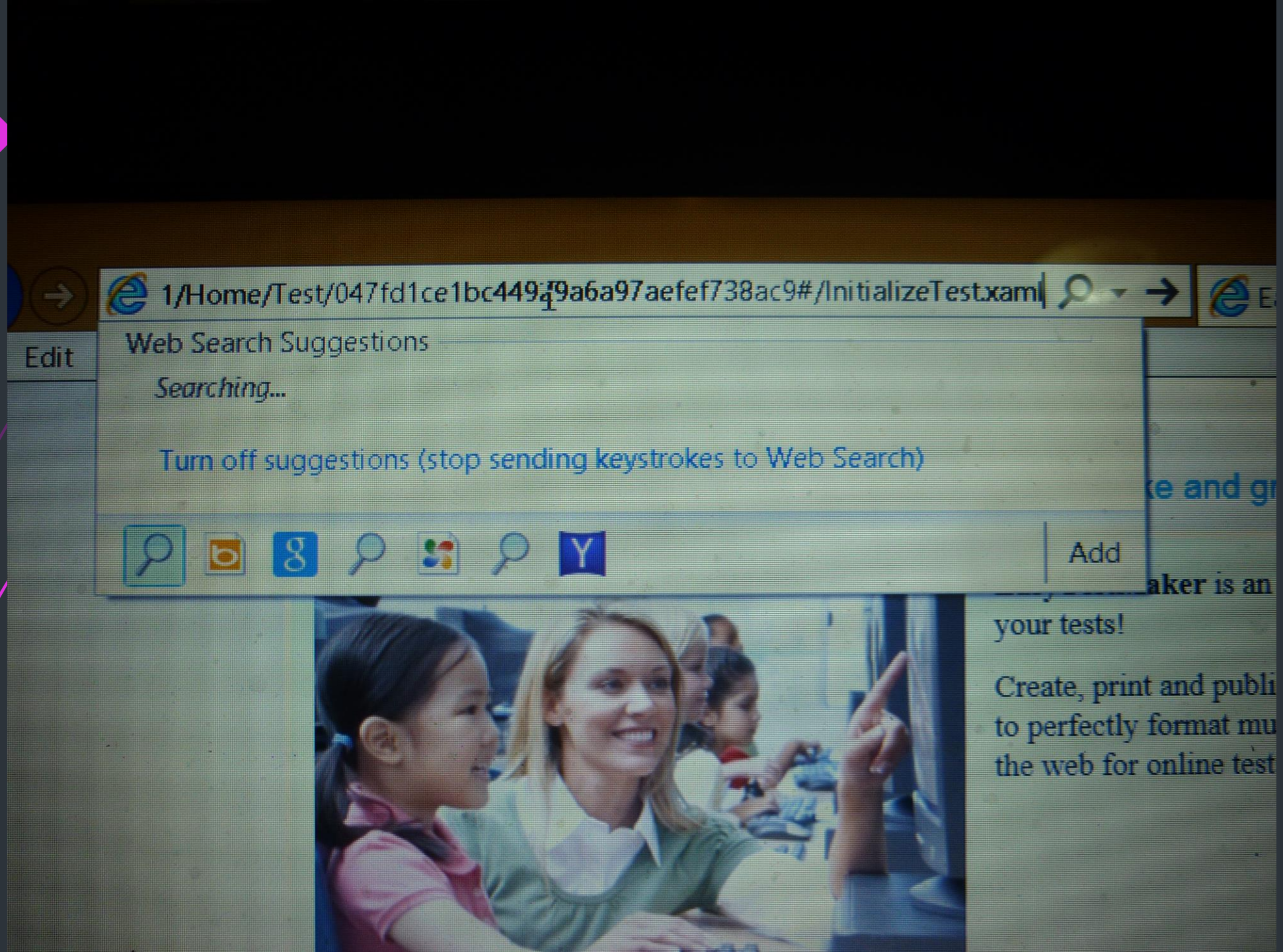
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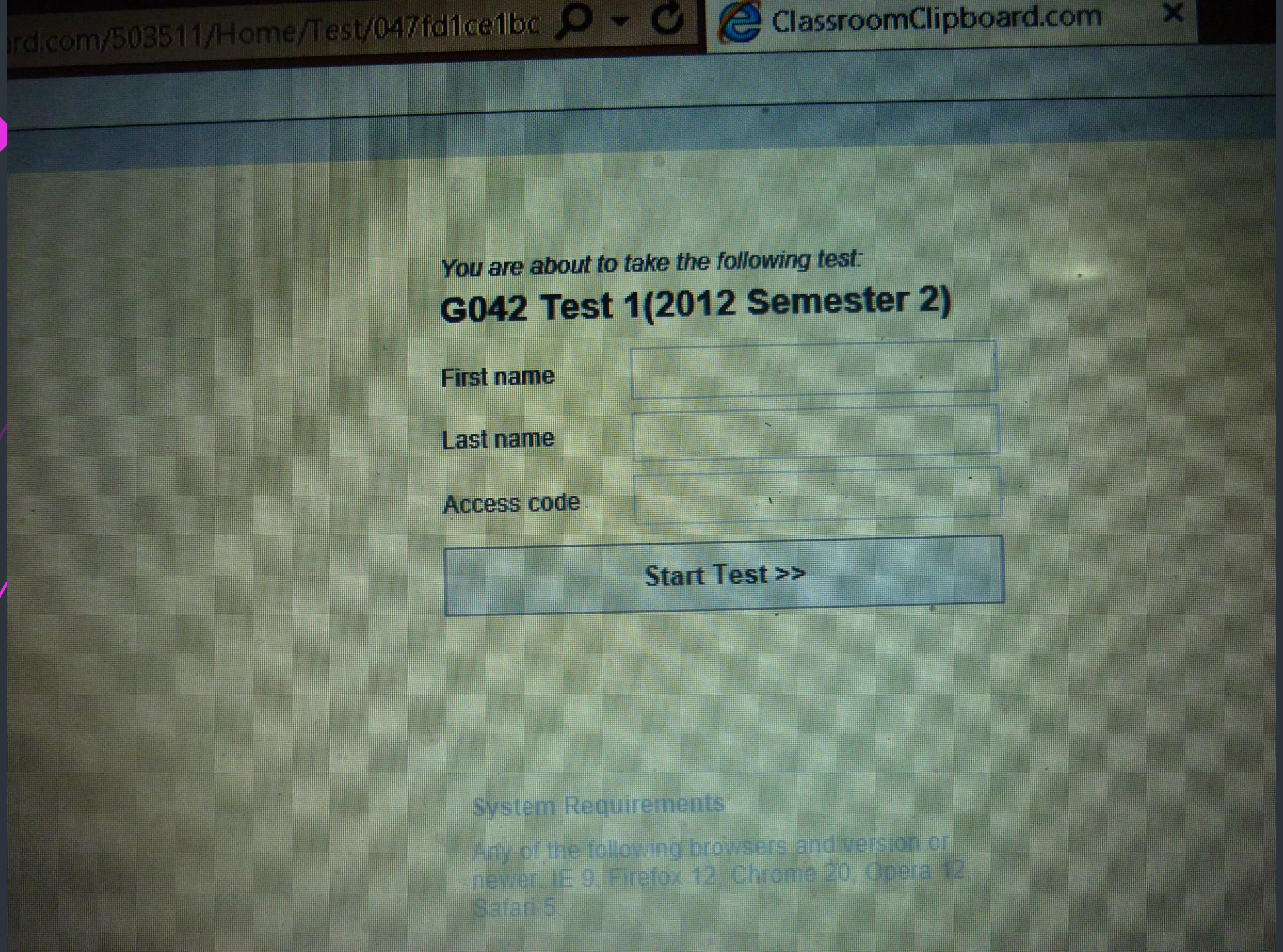
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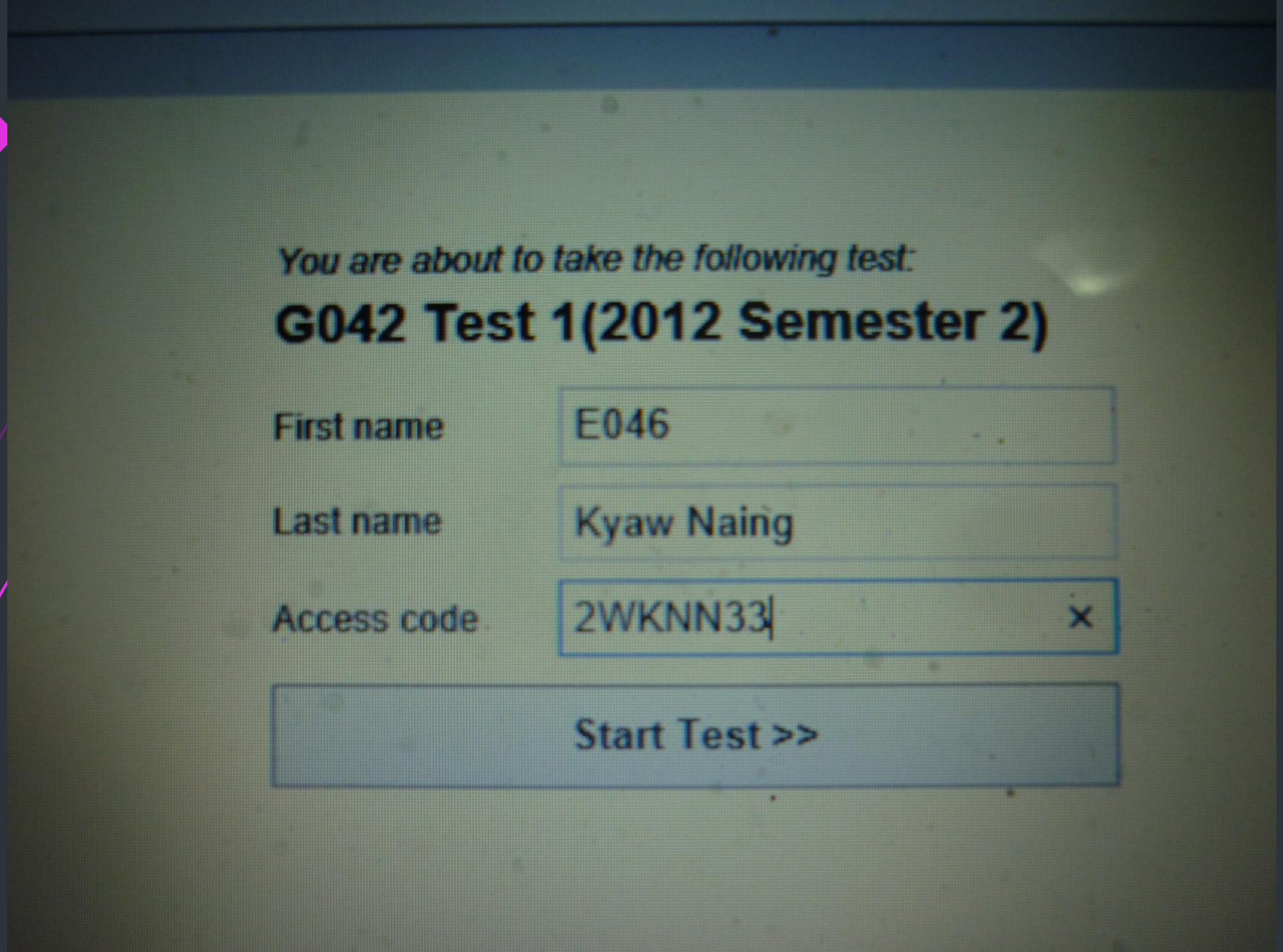
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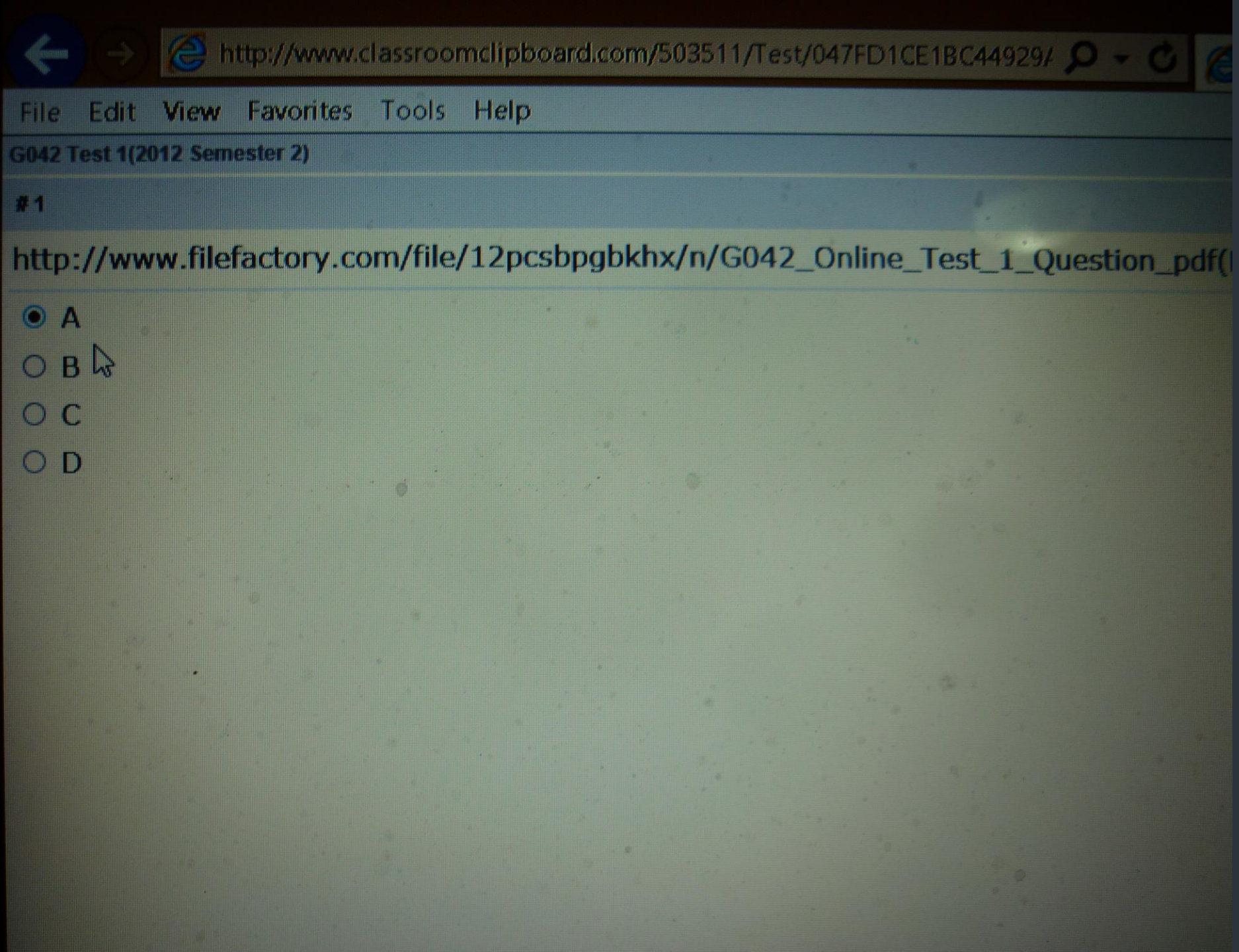
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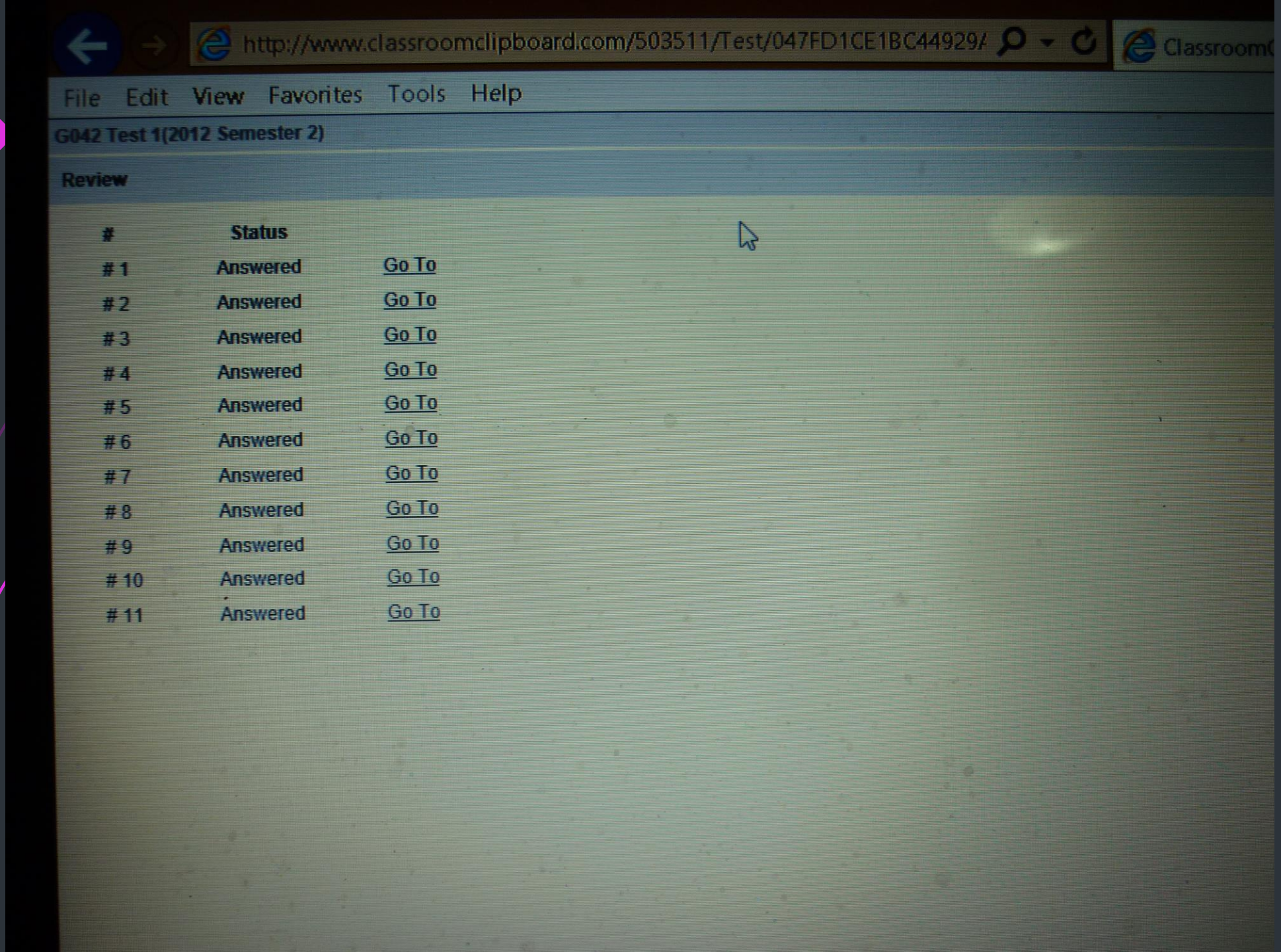
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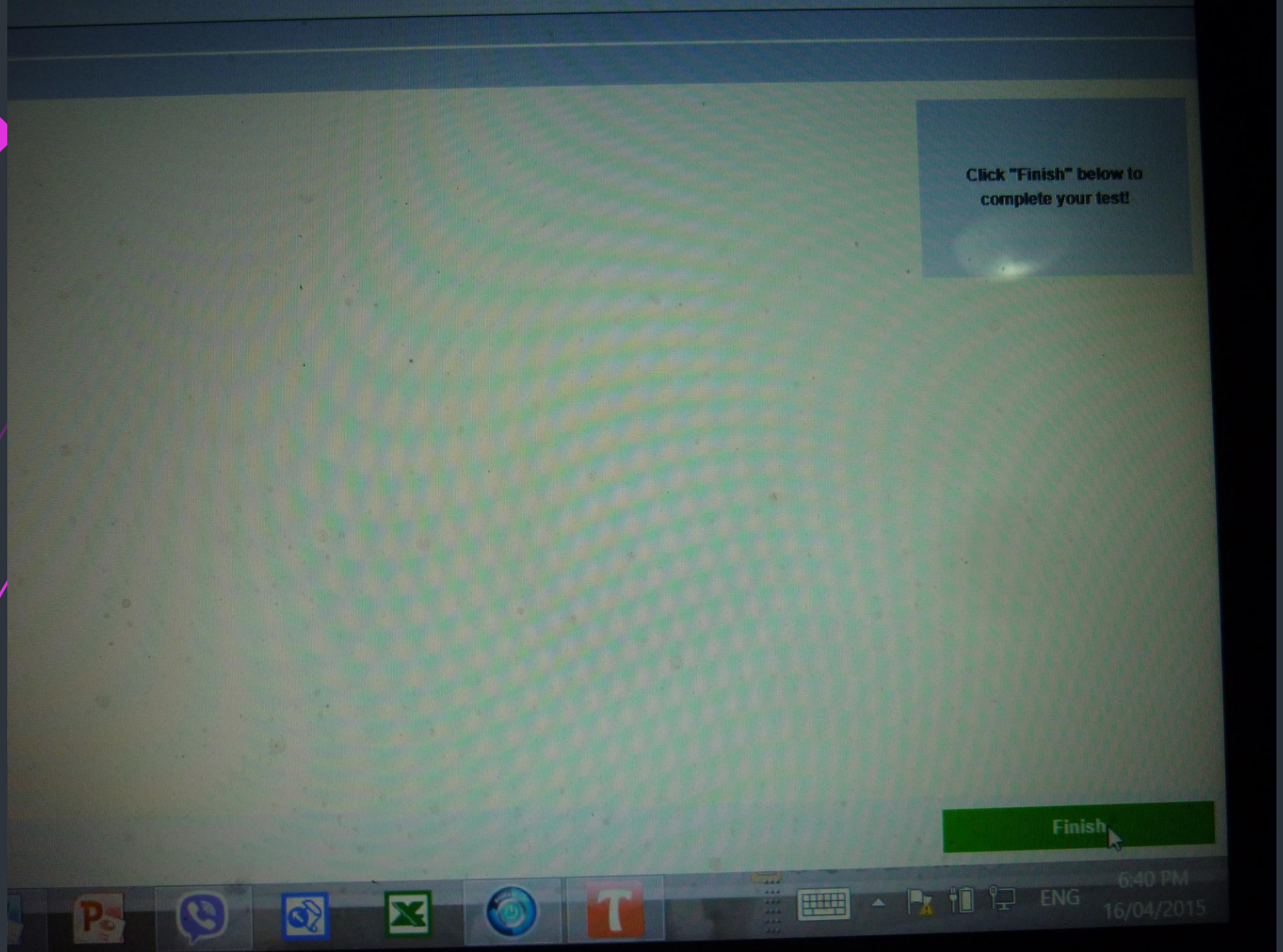
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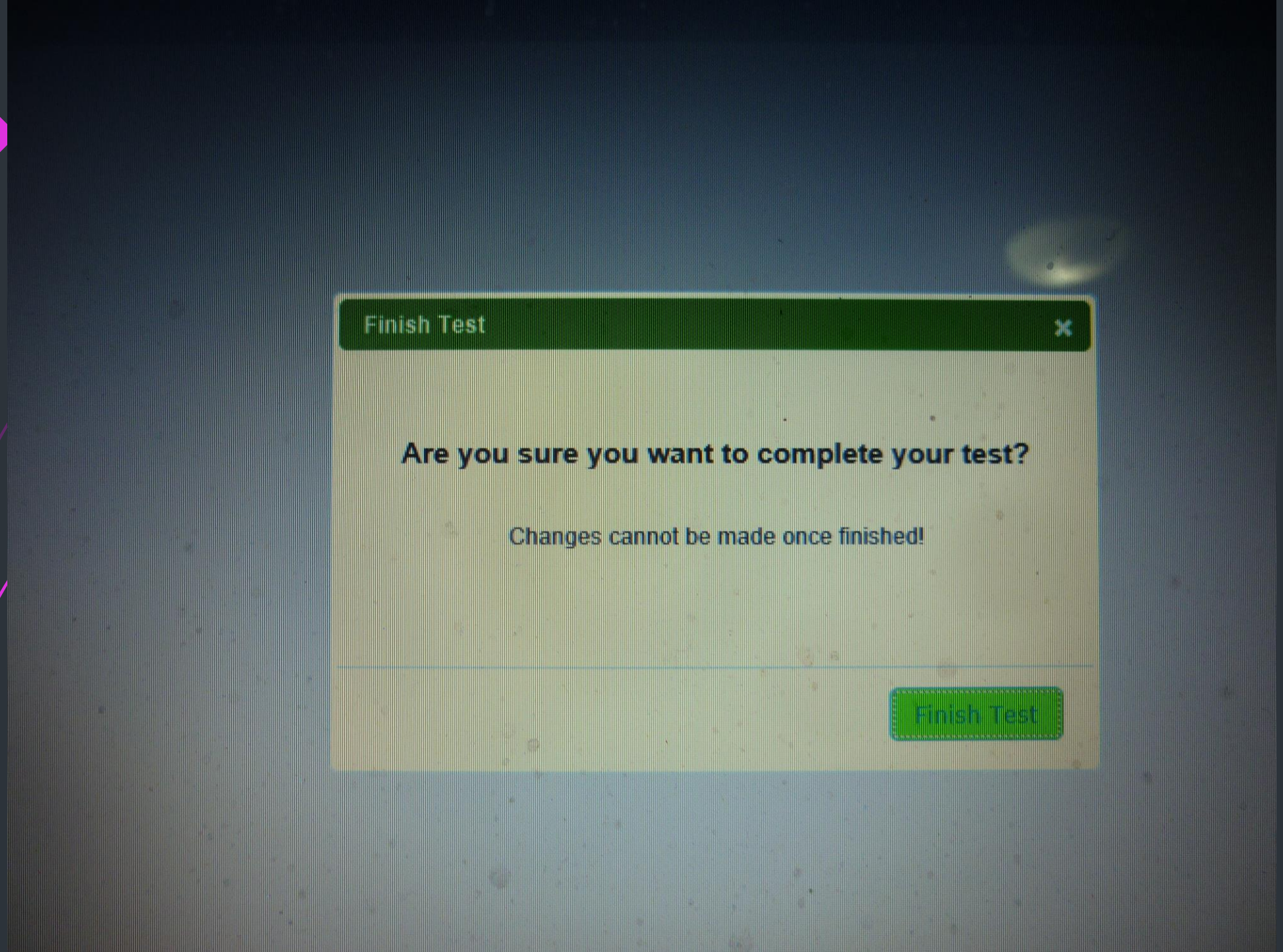
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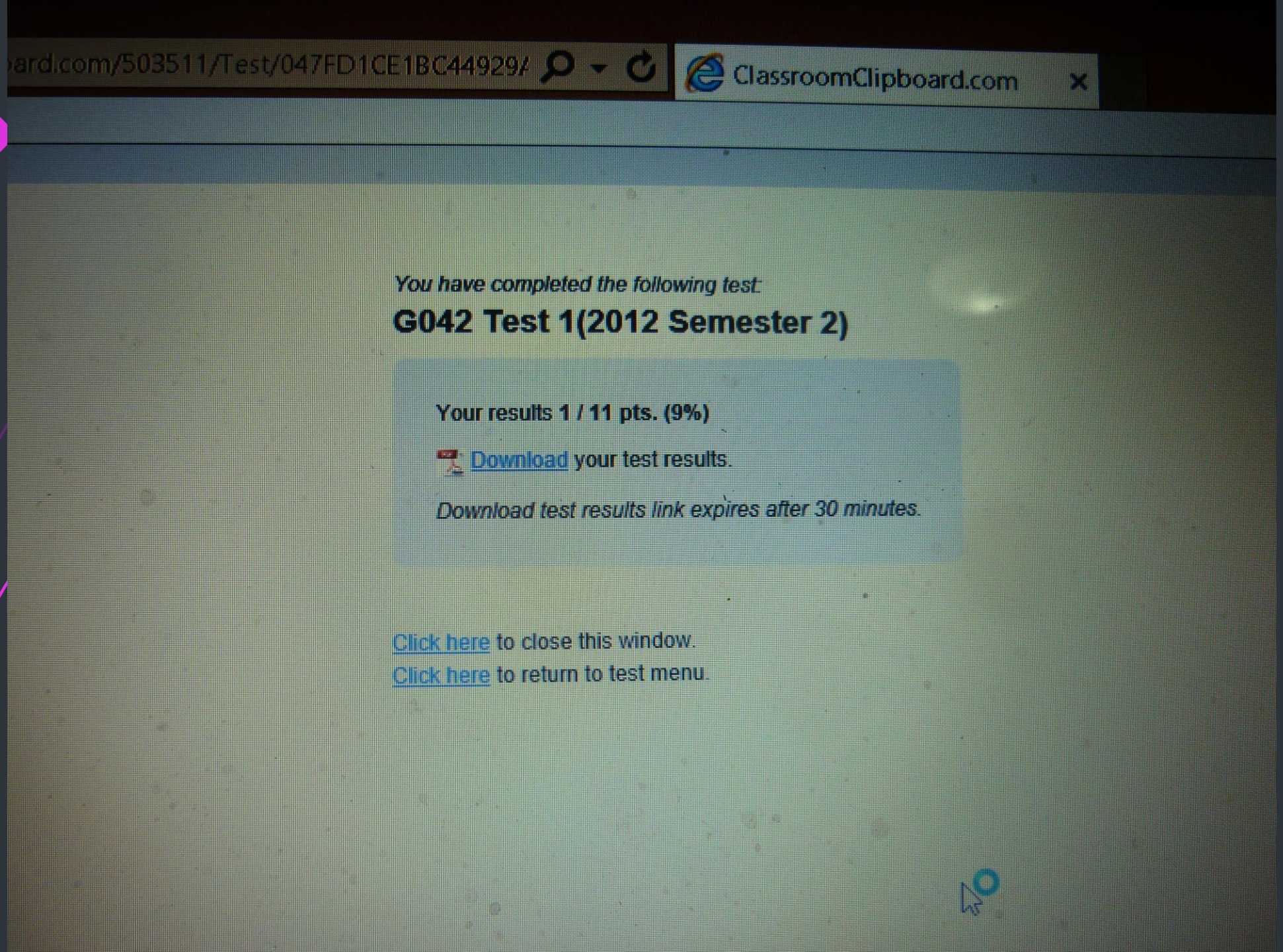
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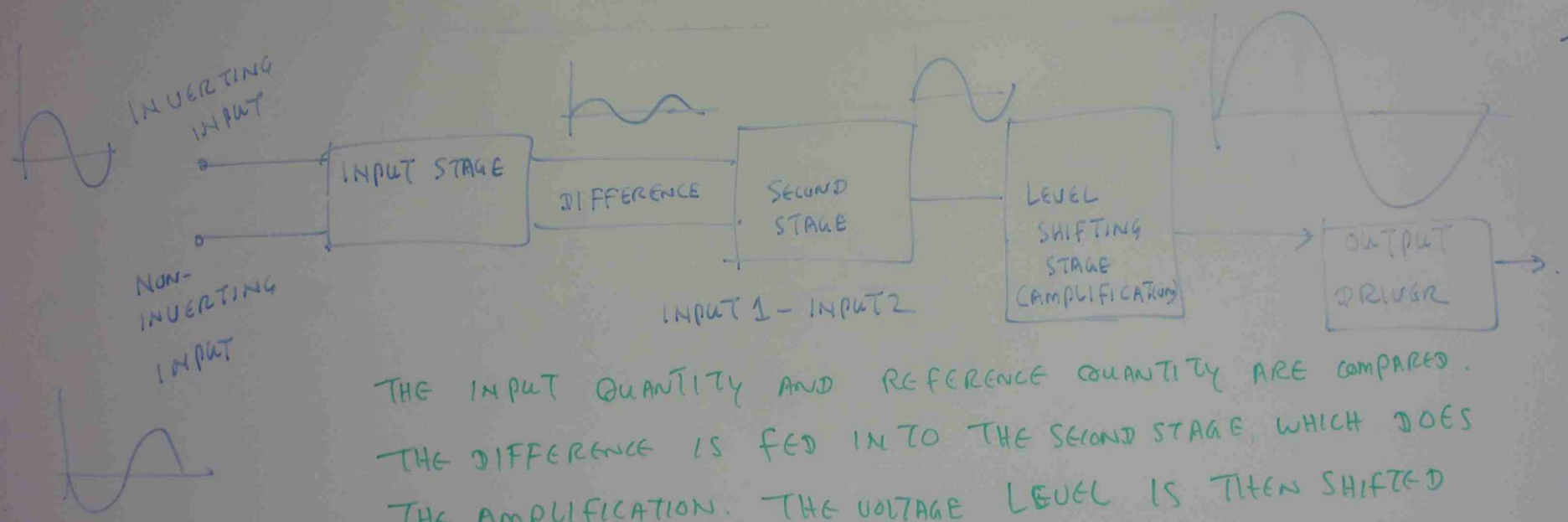

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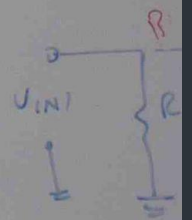

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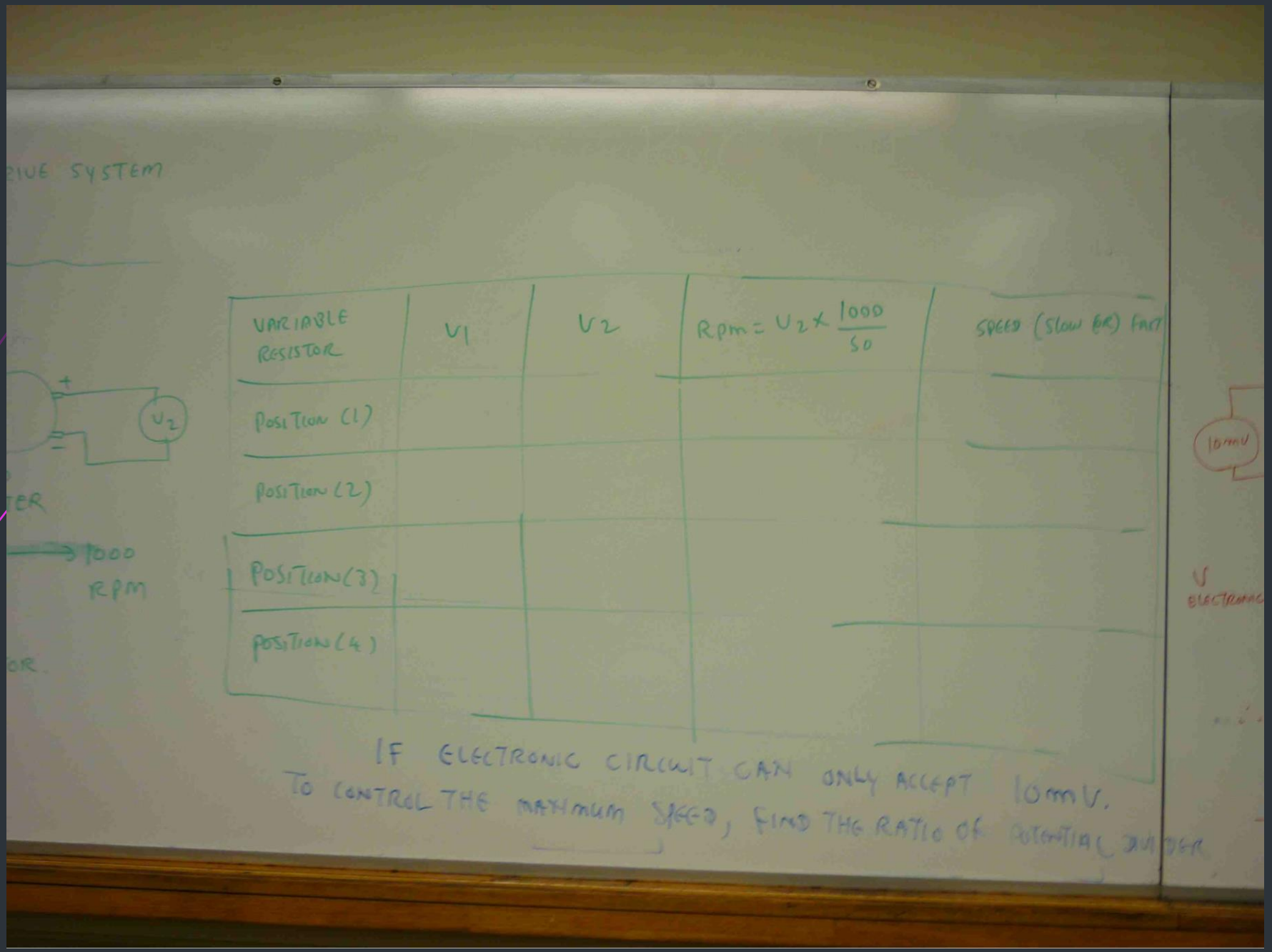
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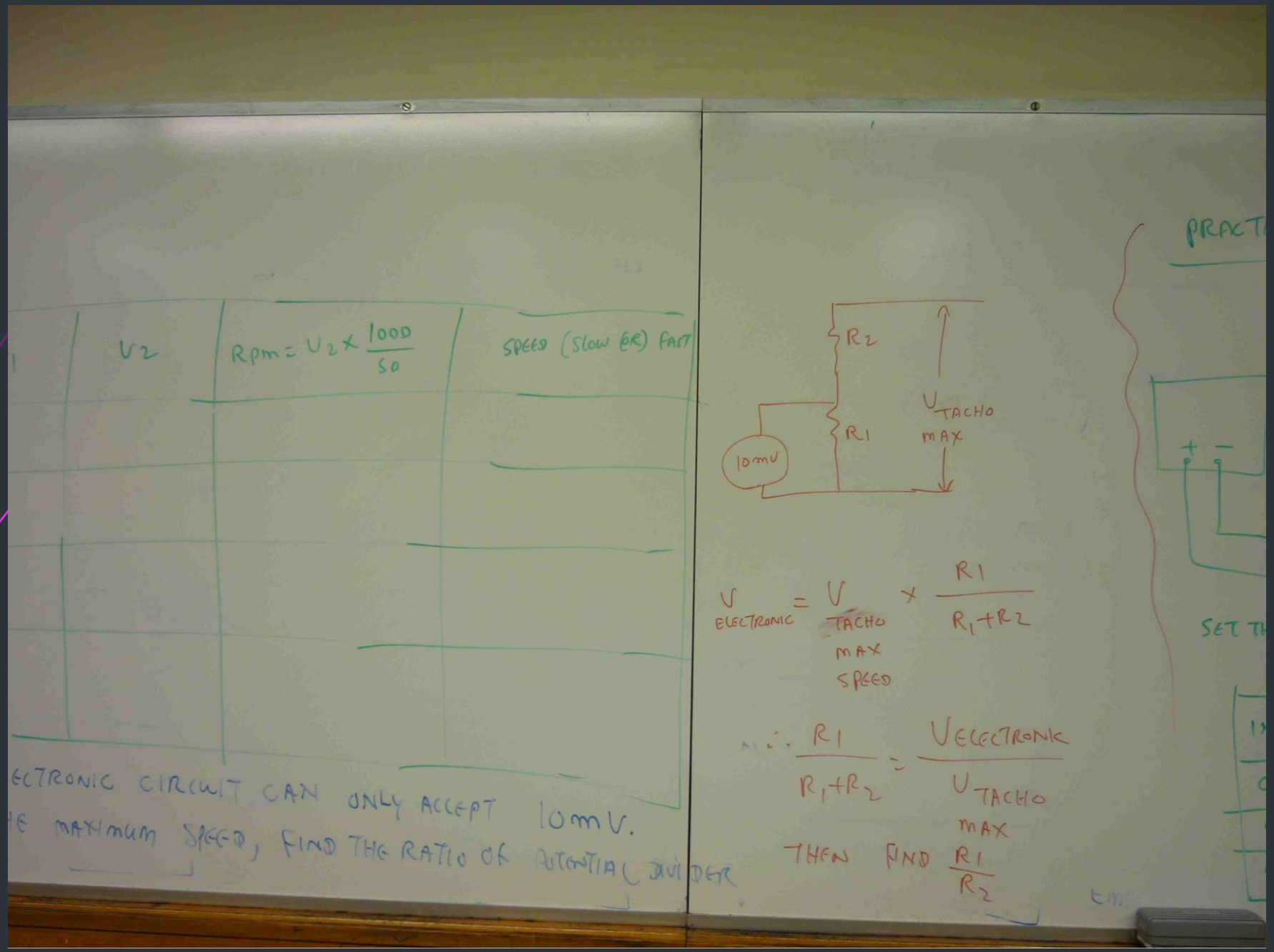
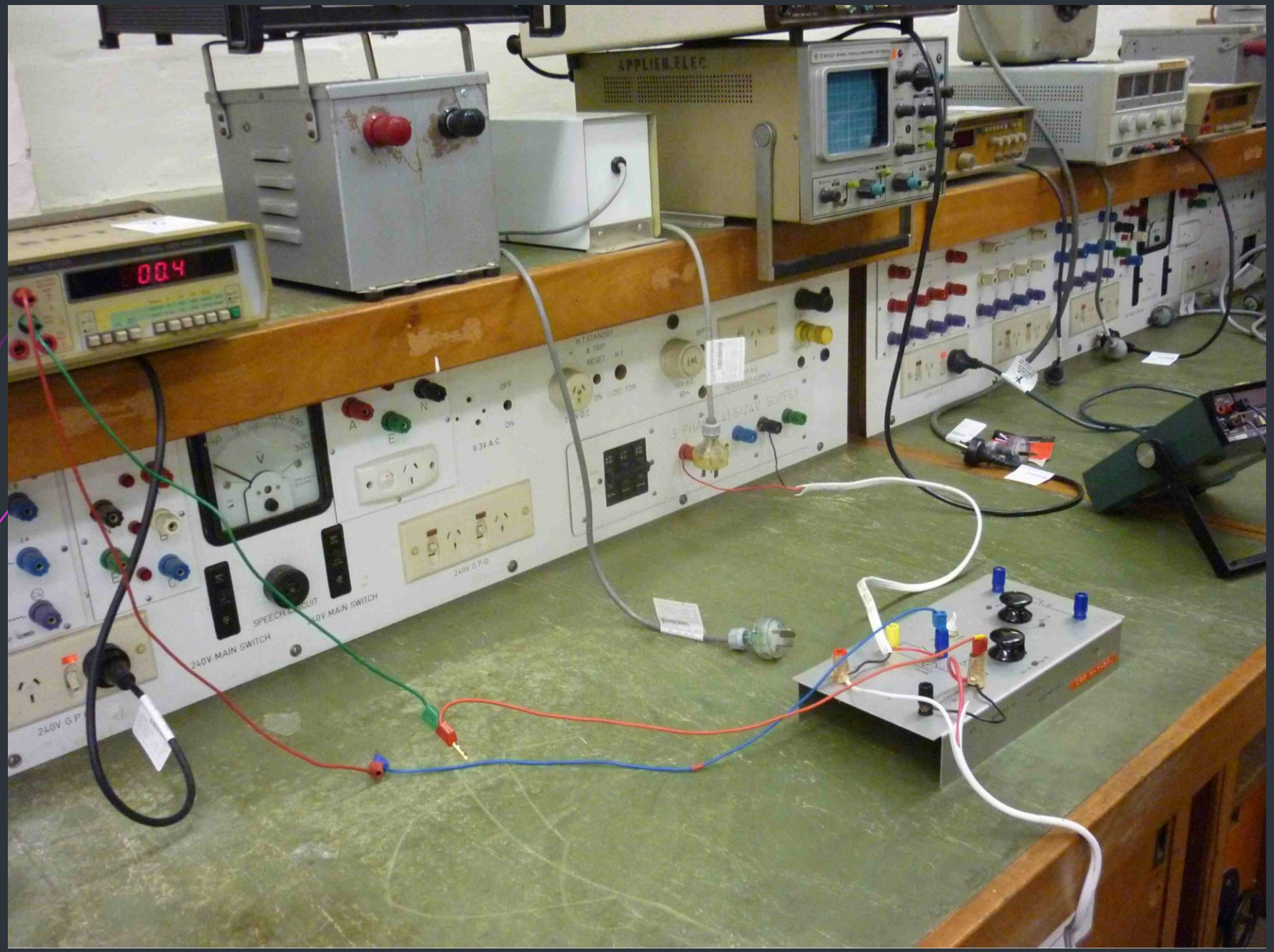
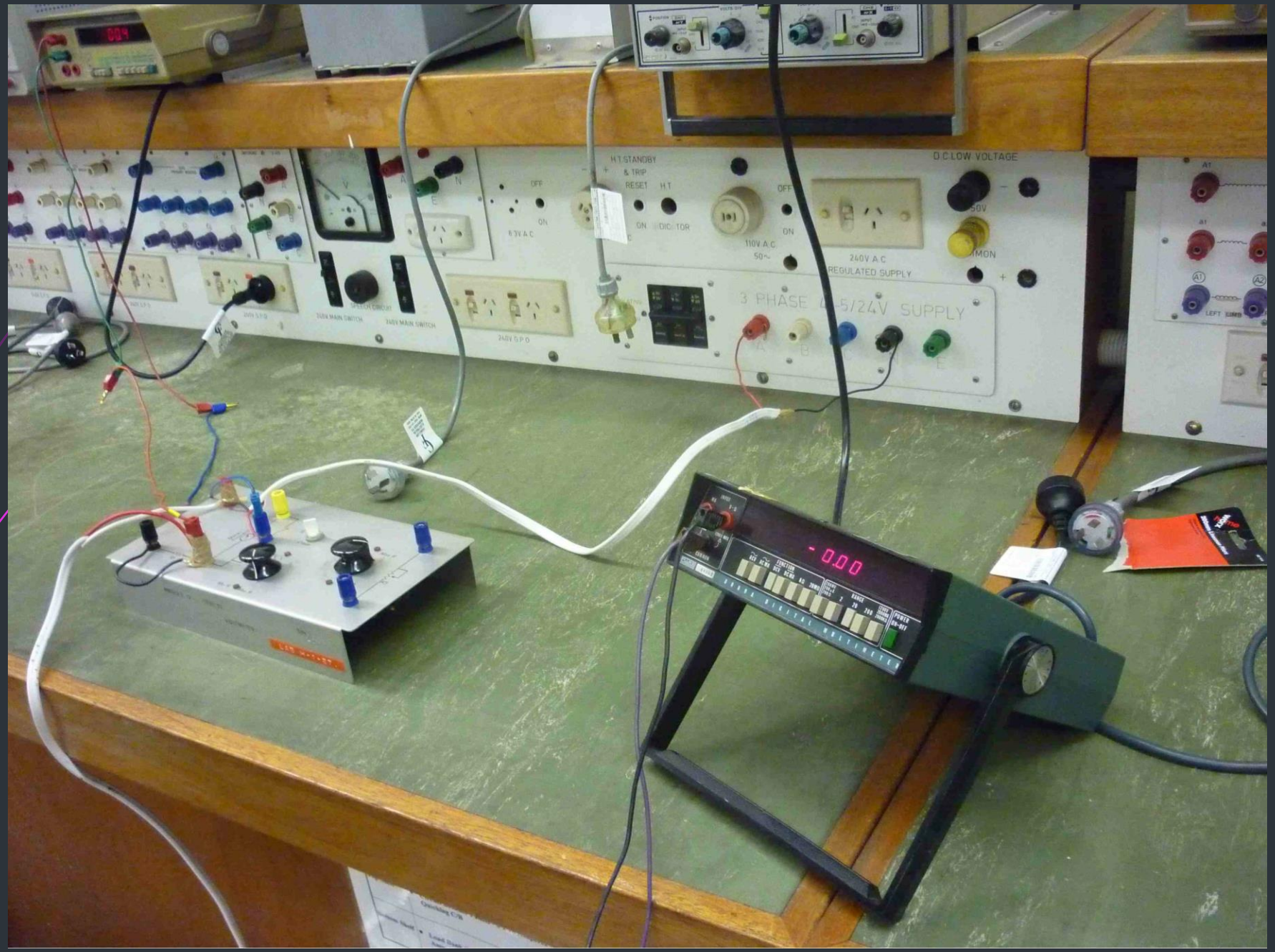
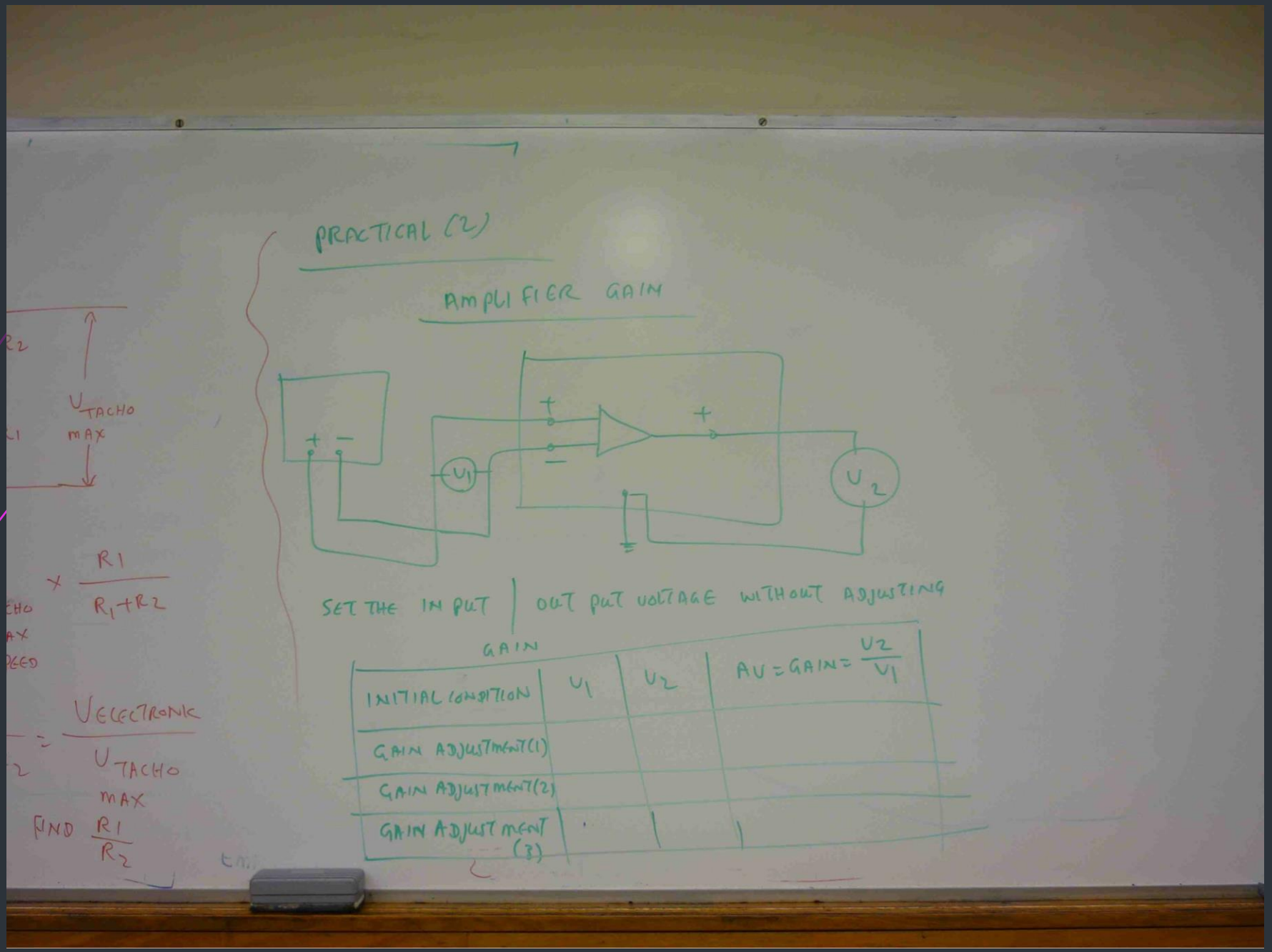
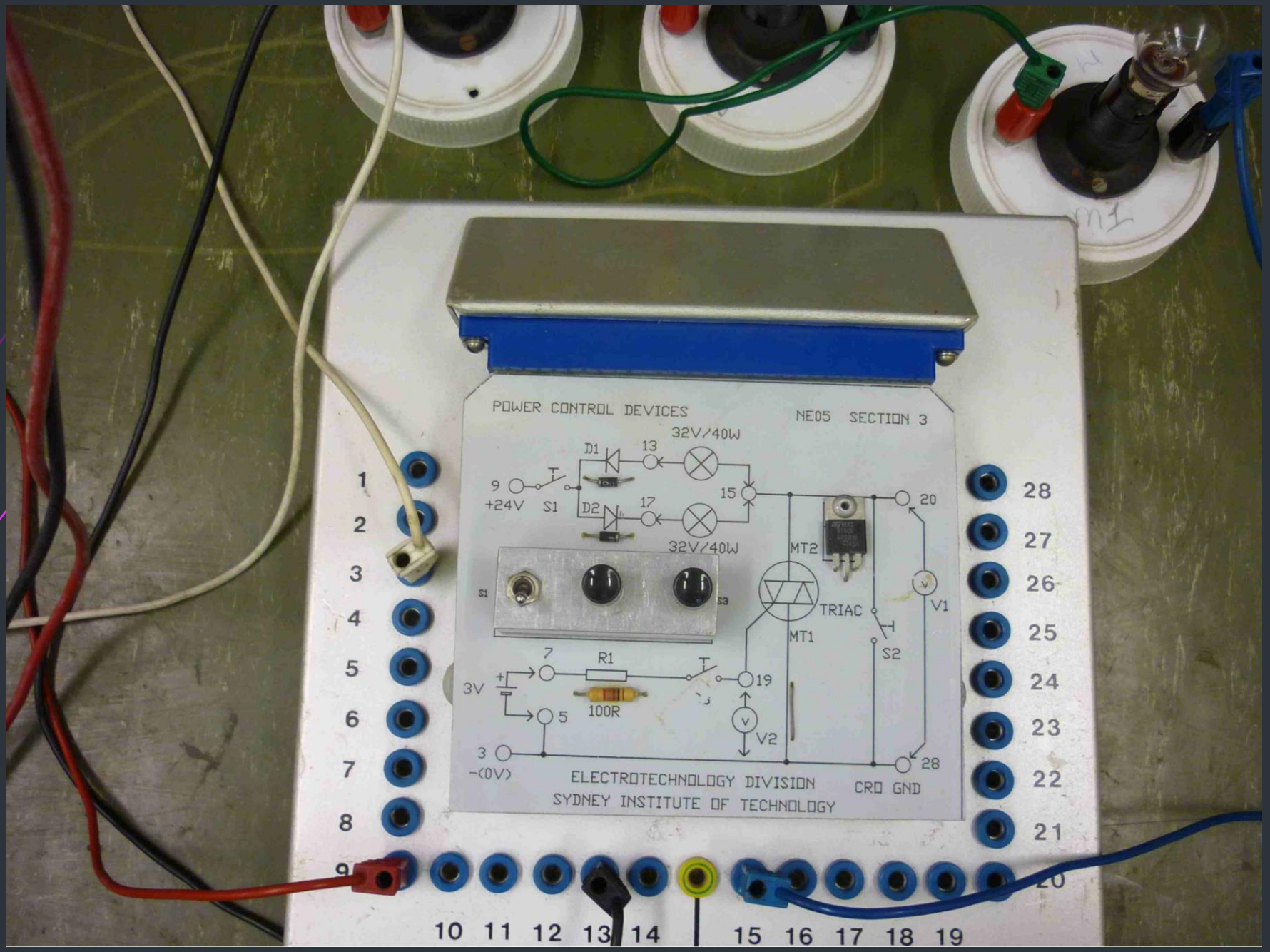
IF ELECTRONIC CIRCUIT CAN ONLY ACCEPT 10mV.
TO CONTROL THE MAXIMUM SPEED, FIND THE RATIO OF

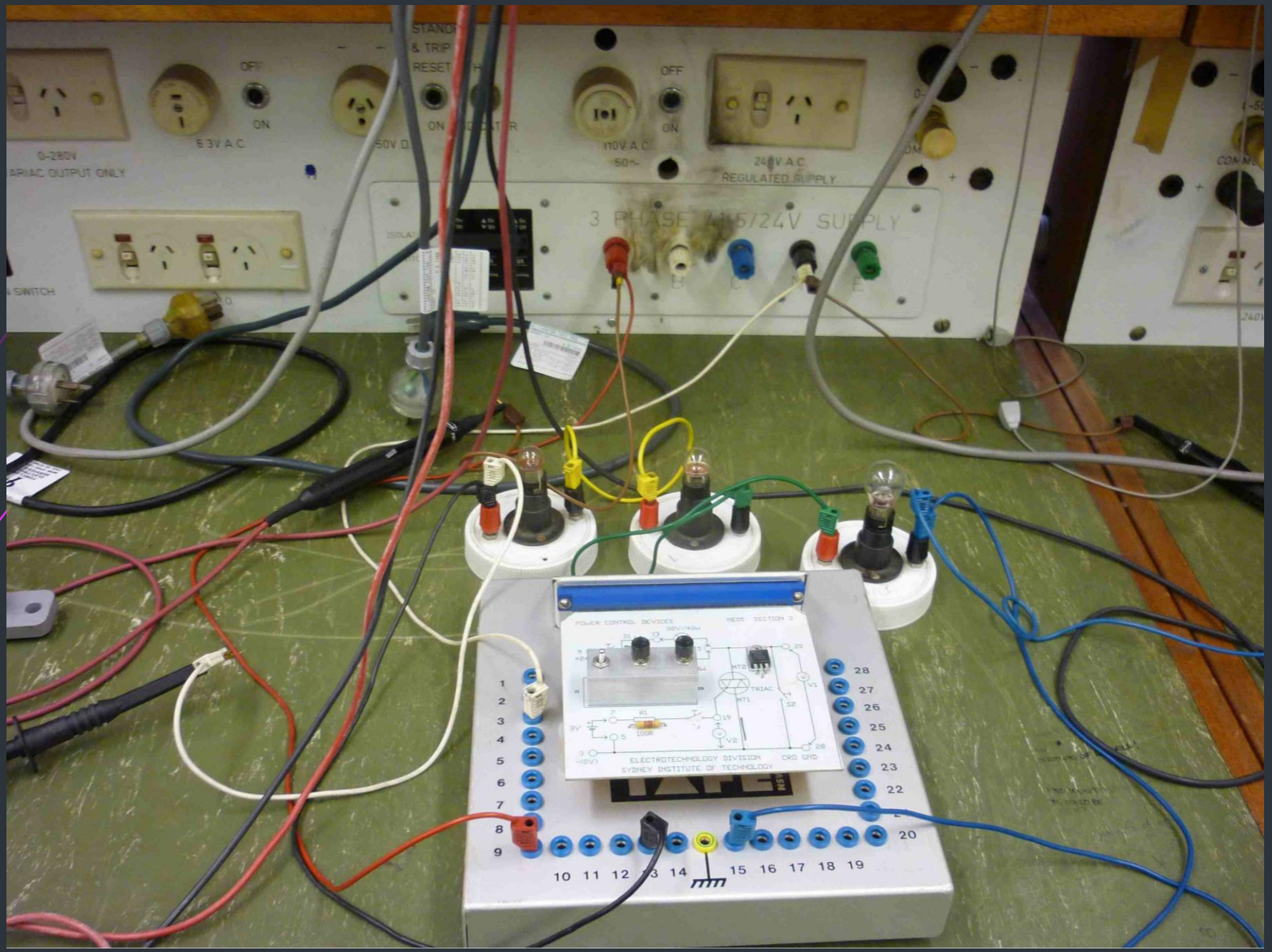

V2
Rpm = U2 × 1000/50
SPEED (SLOW OR) FAST
ECTRONIC CIRCUIT CAN ONLY ACCEPT 10mV.
E MAXIMUM SPEED, FIND THE RATIO OF POTENTIAL DIVIDER
R2
R1
10mV
U TACHO MAX
V ELECTRONIC = V TACHO MAX SPEED × R1/(R1+R2)
∴ R1/(R1+R2) = U ELECTRONIC / U TACHO MAX
THEN FIND R1/R2
PRACT
SET TH


240V MAIN SWITCH
240V MAIN SWITCH
6.3V A.C
240V G.P.O

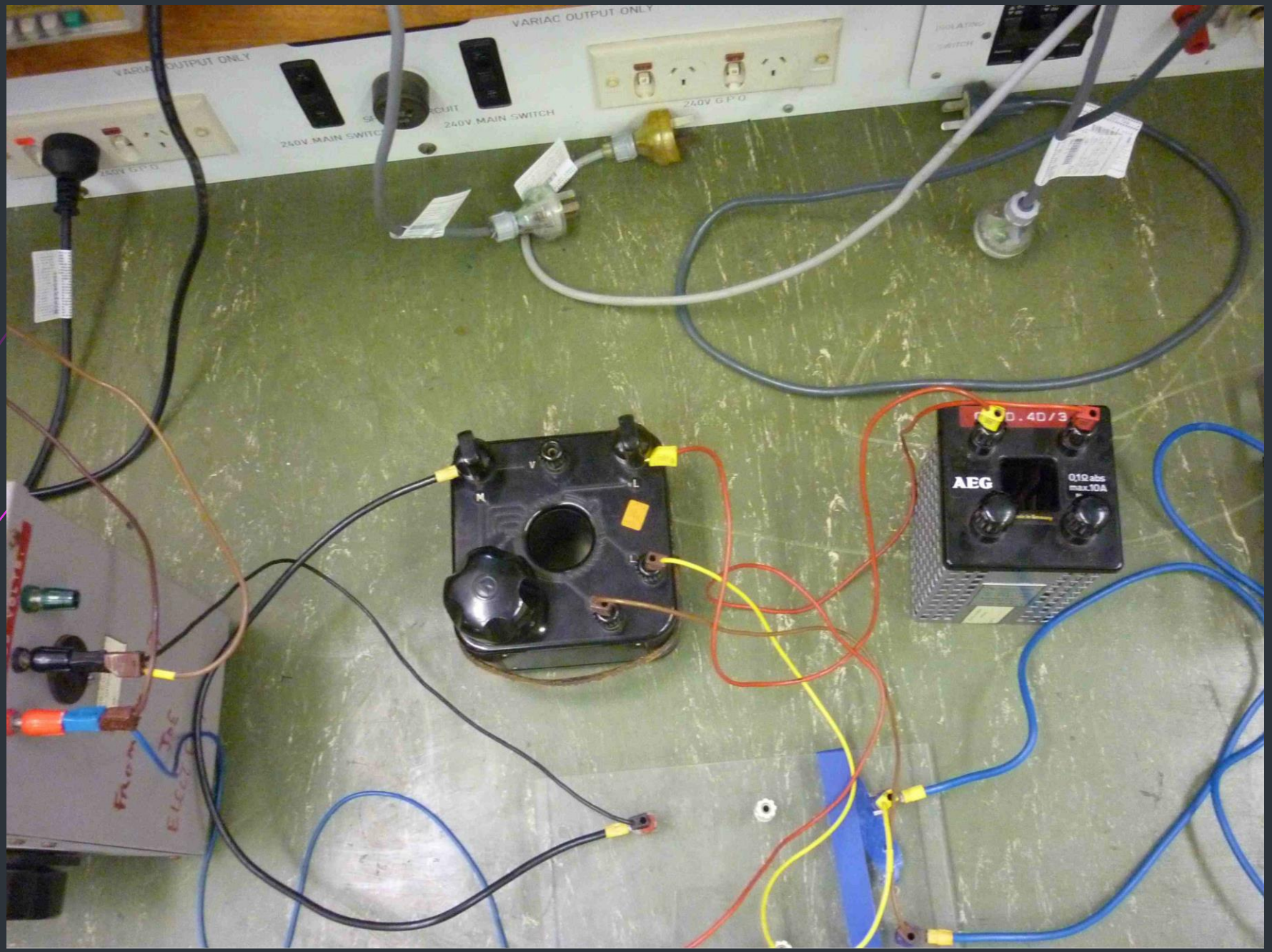

H.T STANDBY
& TRIP
RESET
H.T
D.C LOW VOLTAGE
240V A.C
REGULATED SUPPLY
SUPPLY
- 0.0 0


PRACTICAL (2)
AMPLIFIER GAIN
U1
U2
SET THE IN PUT | OUT PUT VOLTAGE WITHOUT ADJUSTING
GAIN
INITIAL CONDITION
U1
U2
AU = GAIN = U2/U1
GAIN ADJUSTMENT(1)
GAIN ADJUSTMENT(2)
GAIN ADJUSTMENT (3)
U TACHO MAX
R1/(R1+R2)
U ELECTRONIC
U TACHO MAX
FIND R1/R2

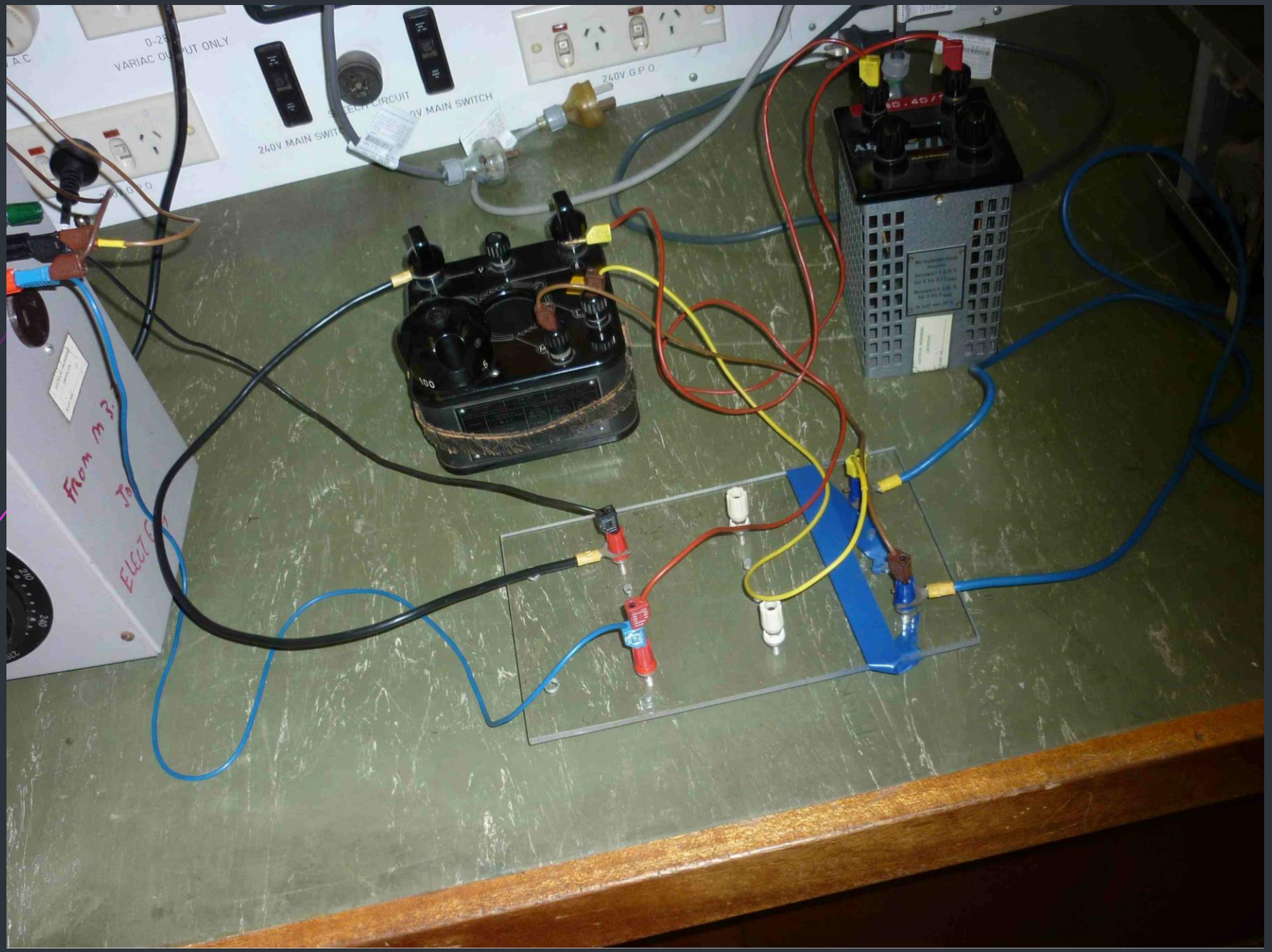

POWER CONTROL DEVICES
NE05 SECTION 3
32V/40W
D1
13
9
+24V
S1
D2
17
15
32V/40W
MT2
20
TRIAC
MT1
V1
S2
7
R1
3V
19
100R
5
V2
3
-(0V)
28
ELECTROTECHNOLOGY DIVISION
SYDNEY INSTITUTE OF TECHNOLOGY
CRO GND
1 2 3 4 5 6 7 8 9
28 27 26 25 24 23 22 21 20
10 11 12 13 14 15 16 17 18 19

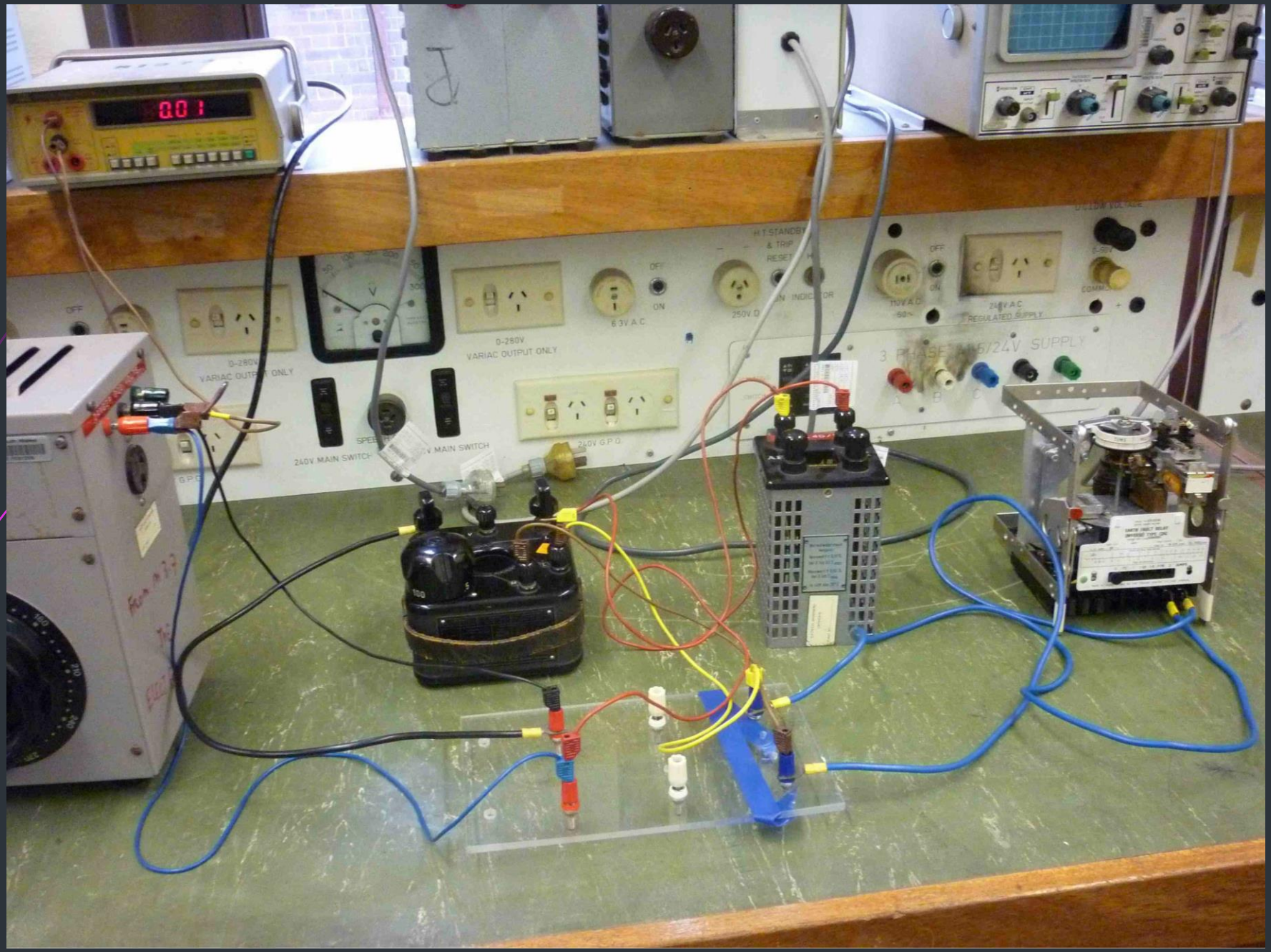

OFF
ON
6.3V A.C.
110V A.C.
50~
240V A.C.
REGULATED SUPPLY
0-280V
TRIAC OUTPUT ONLY
POWER CONTROL DEVICES
ELECTROTECHNOLOGY DIVISION
SYDNEY INSTITUTE OF TECHNOLOGY
TRIAC
100R
1 2 3 4 5 6 7 8 9
10 11 12 13 14 15 16 17 18 19
20 22 23 24 25 26 27 28

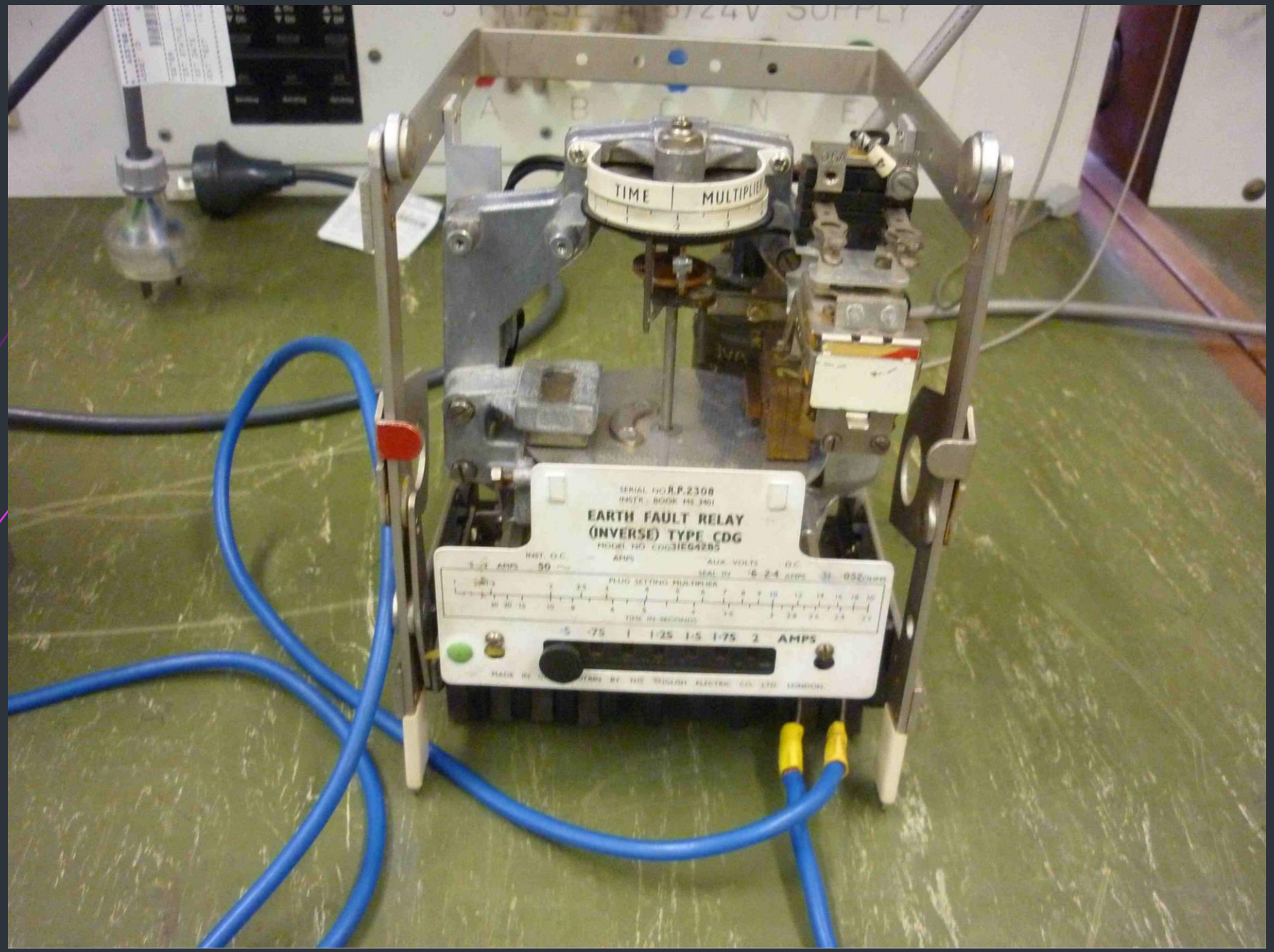
BWD 880 POWERSCOPE
CH1
CH2
CH3
CH4
POSITION VOLTS / DIV
DC
AC
GND
BAL
CMR
CH SEL
±1000V MAX. EACH INPUT
READY
RESET
SS
PH
LEVEL
EXT
LINE
VERNIER SEC/DIV
CAL
COUNT
UP
STOP
DOWN
DEGREES
PHASE ANGLE
EXTERNAL TRIG / PH
±600V MAX
BEAM FIND
REFERENCE
MARKER OFF
180°
120°
240°
ON
PULL FOR OFFSET
CALIBRATE
10V
100V
ASTIG
POWER
PWR OFF
GRATICULE
FOCUS
INTENSITY
TRIO 15MHz OSCILLOSCOPE CS-1560A
POWER ILLUM
OFF
VARIABLE SWEEP TIME/DIV


VARIAC OUTPUT ONLY
240V MAIN SWITCH
240V G.P.O
AEG
0,1Ω abs
max.10A

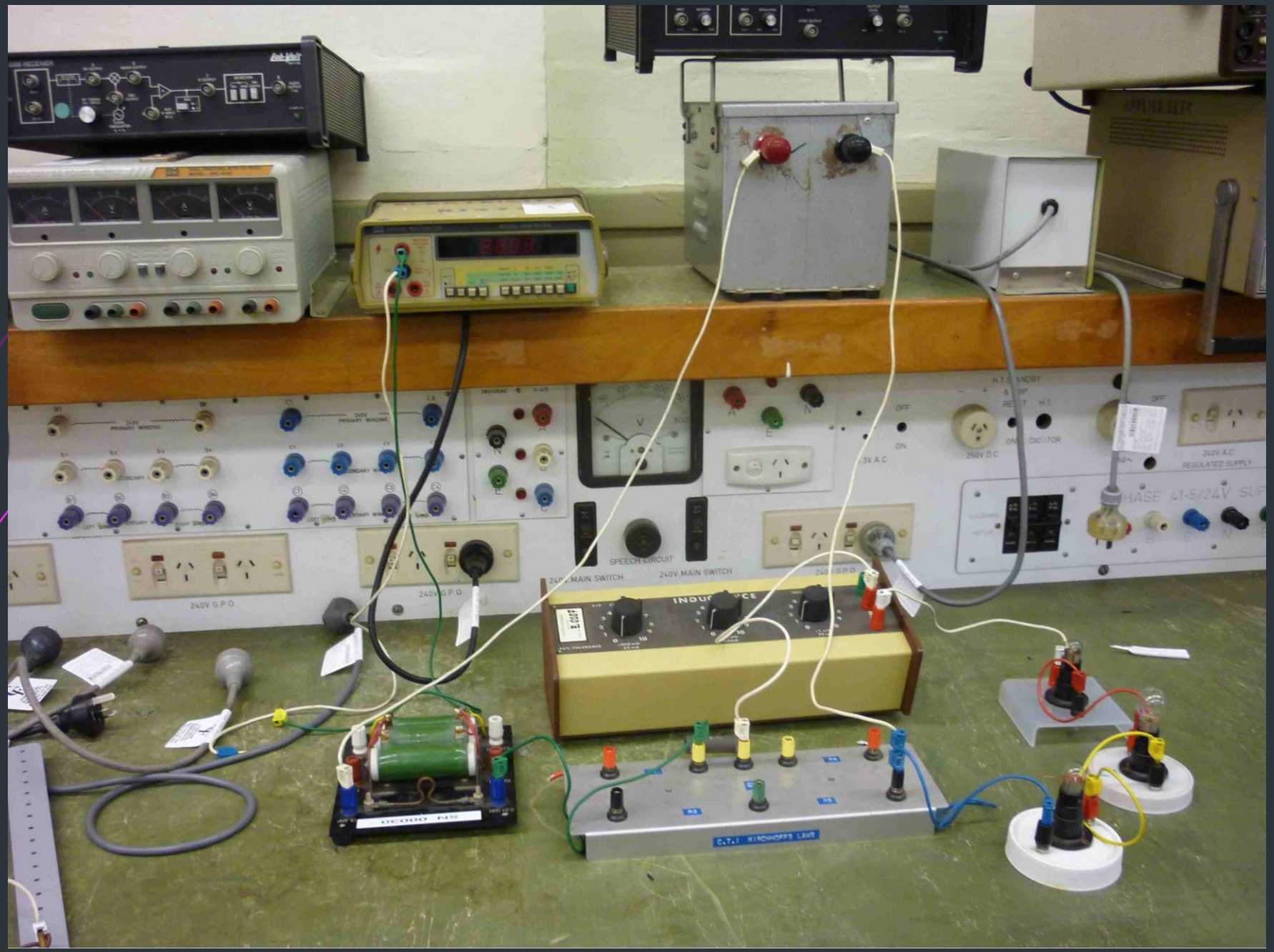
V
M
L
L
M


240V G.P.O.
240V MAIN SWITCH


0.01
0-280V
VARIAC OUTPUT ONLY
240V MAIN SWITCH
240V G.P.O.
6.3V A.C.
250V D
110V A.C.
240V A.C.
REGULATED SUPPLY
3 PHASE 6/24V SUPPLY


TIME
MULTIPLIER
EARTH FAULT RELAY
(INVERSE) TYPE CDG
AMPS

0.01
OFF
ON
240V A.C
REGULATED SUPPLY
110V A.C
50~
EARTH
& TRIP
HT
RESET
INDICATOR
ON
OFF
ON
6.3V A.C
0-280V
VARIAC OUTPUT ONLY
0-280V
VARIAC OUTPUT ONLY
6.3V A.C
240V MAIN SWITCH
240V G.P.O
ISOLATE BEFORE OPENING
New South Wales
TAPE 0501359


240V G.P.O.
240V MAIN SWITCH
SPEECH CIRCUIT

Engineering Practicals

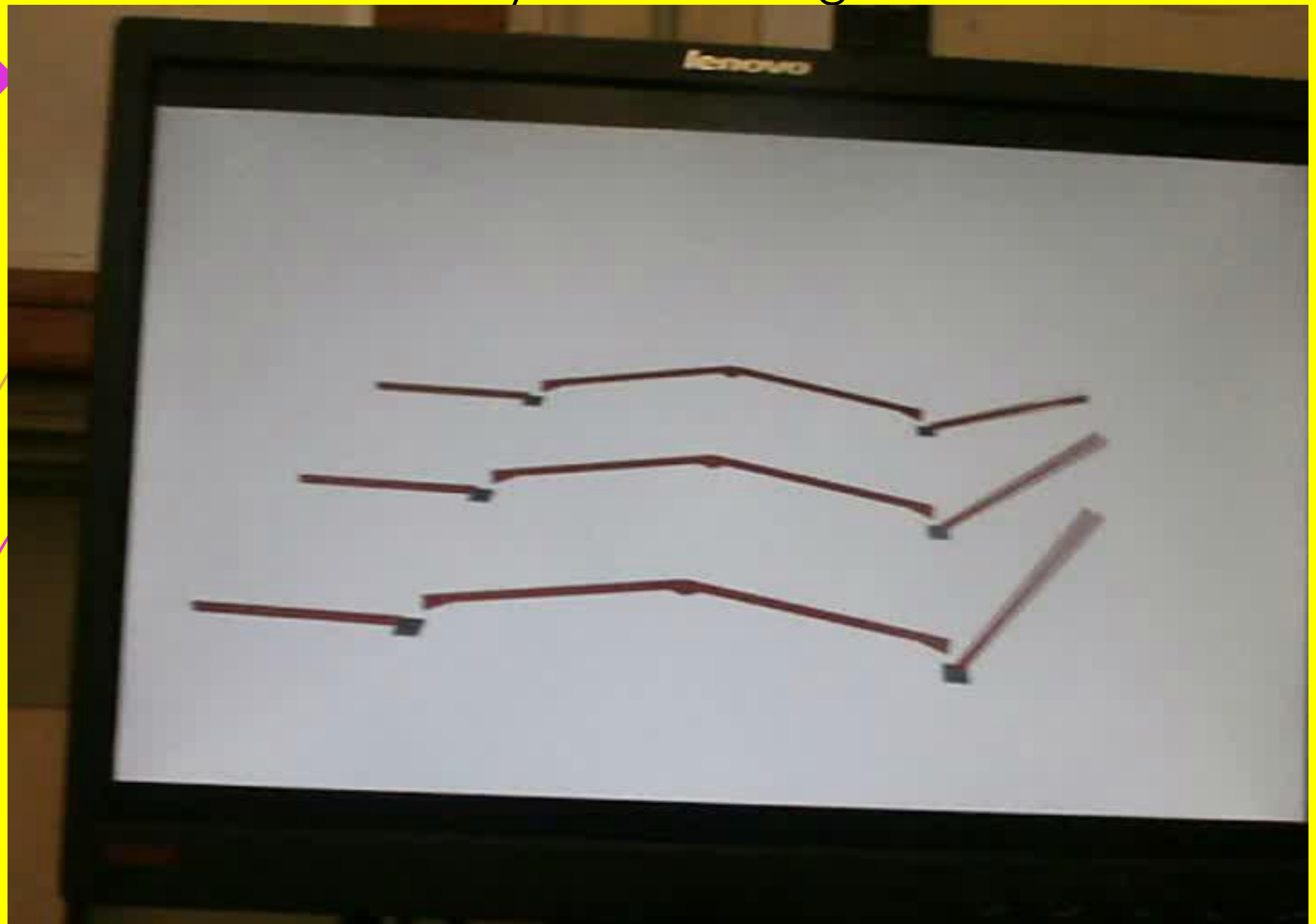
www.highlightcomputer.com/practical.htm

Link

Basic Skill Training-Civil-Bricklaying

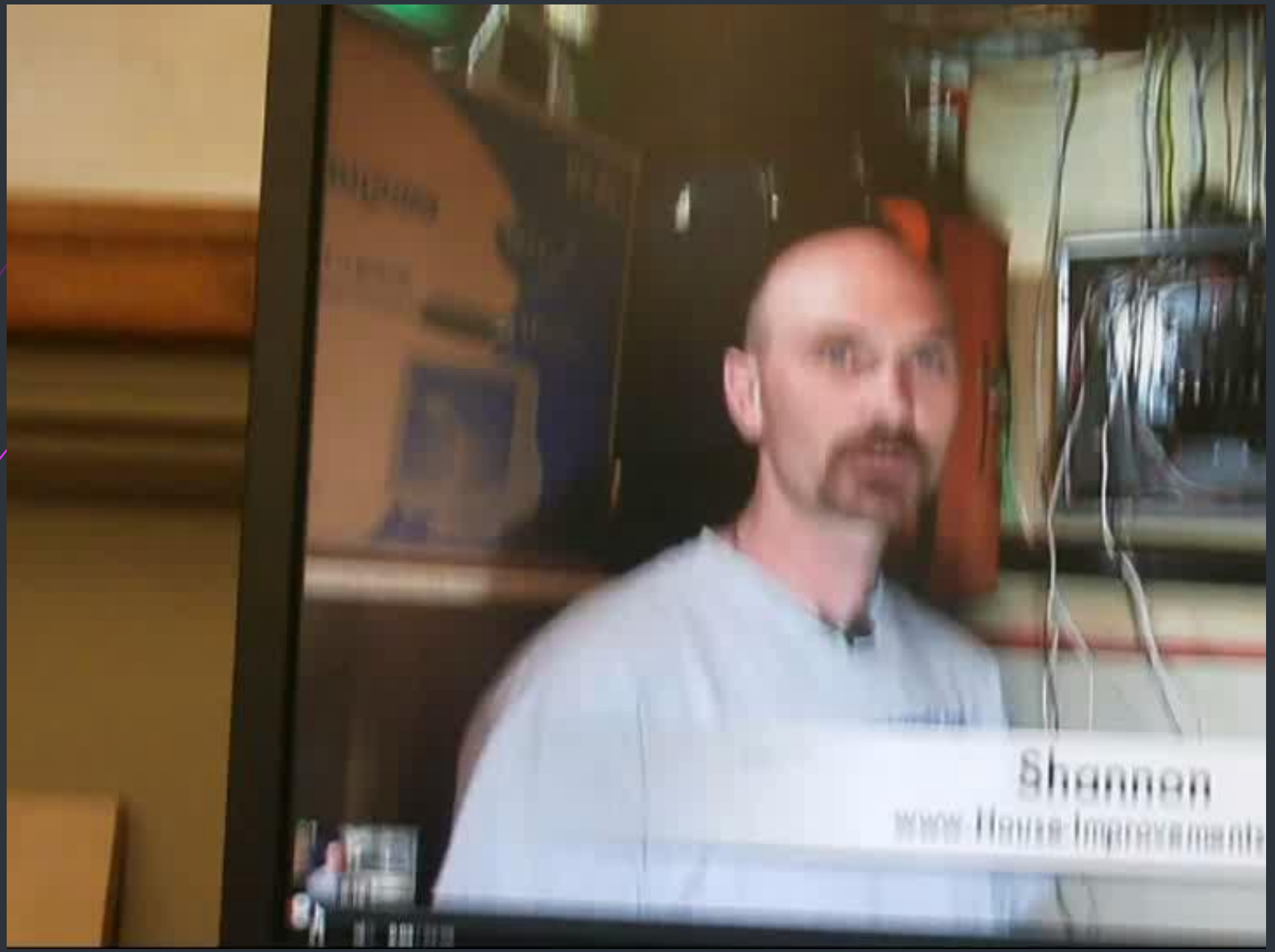
Production Operator Training-Electrical –Coil Manufacturing

Overall construction system training-Civil Construction



Detailed Concept Training-Mechanical-Engine Assembly

Advanced Skills Training Electrical-Switchboard Installation



Practical training videos are to be developed to provide the specific skills at the different levels

Learning Platform example

http://www.highlightcomputer.com/onlineteaching1.htm

Using multimedia & videos in teaching & Learning

http://www.highlightcomputer.com/videos1.htm

Using Youtube in teaching & learning

http://www.highlightcomputer.com/videos2.htm

Sample Course Construction & Learning System

Link 1

Link 2