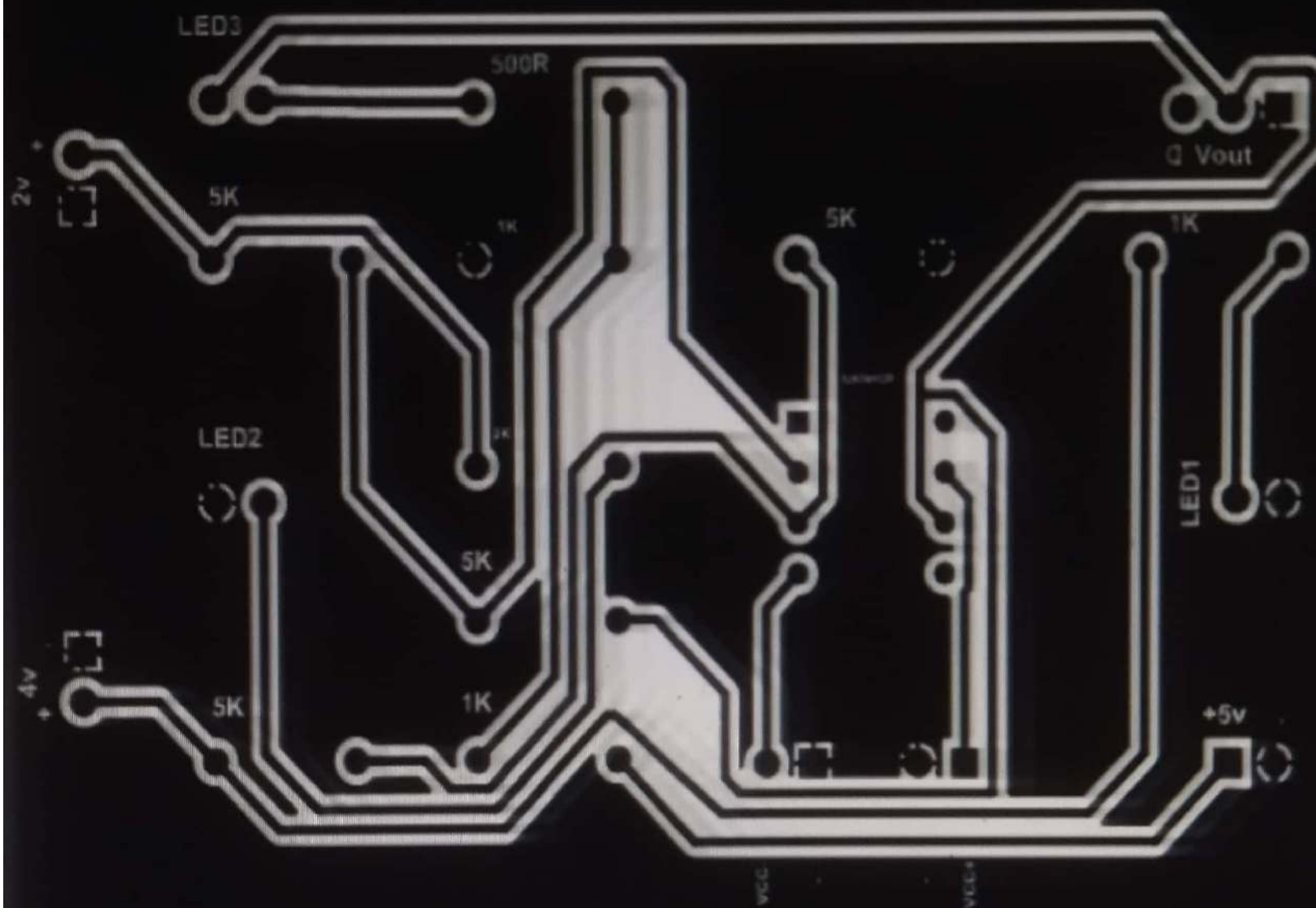




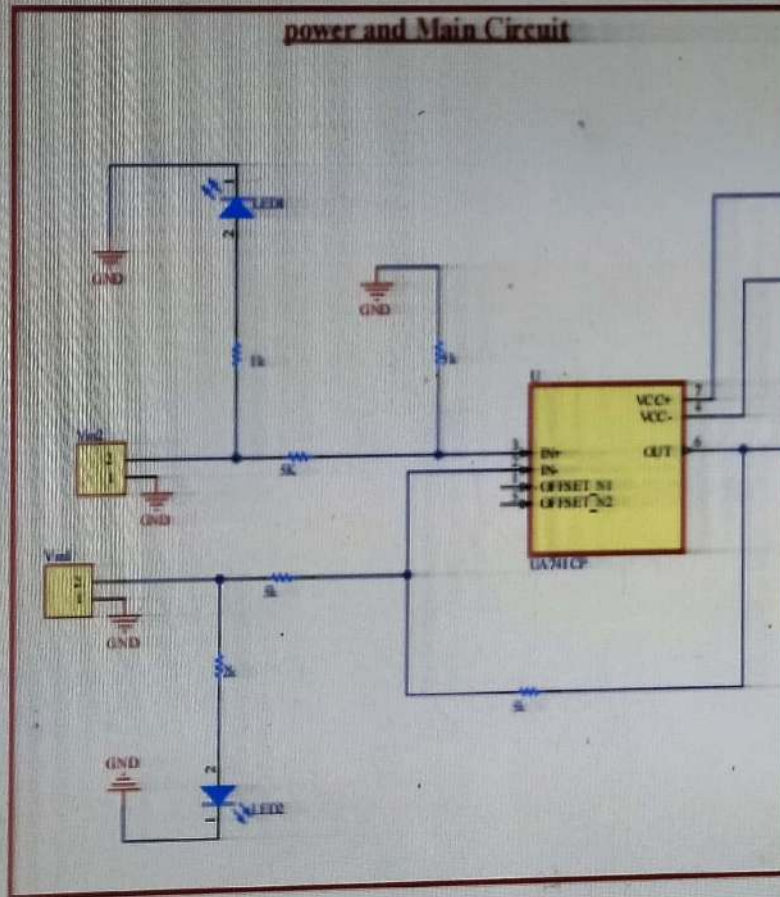


Muhammed Ibrahim Abdullah Ashraf AbdulRhman Al Husein Muhammed Abo alhasan Ziad Emad

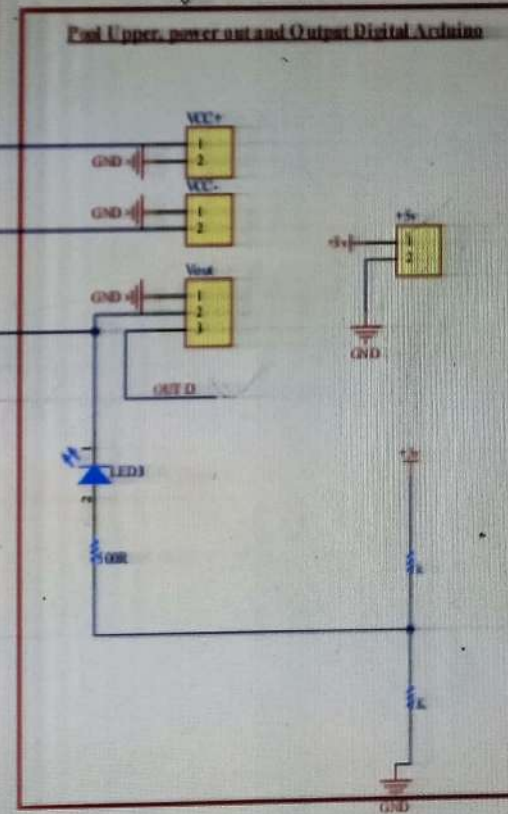
Name: Muhammed Ibrahim Ali

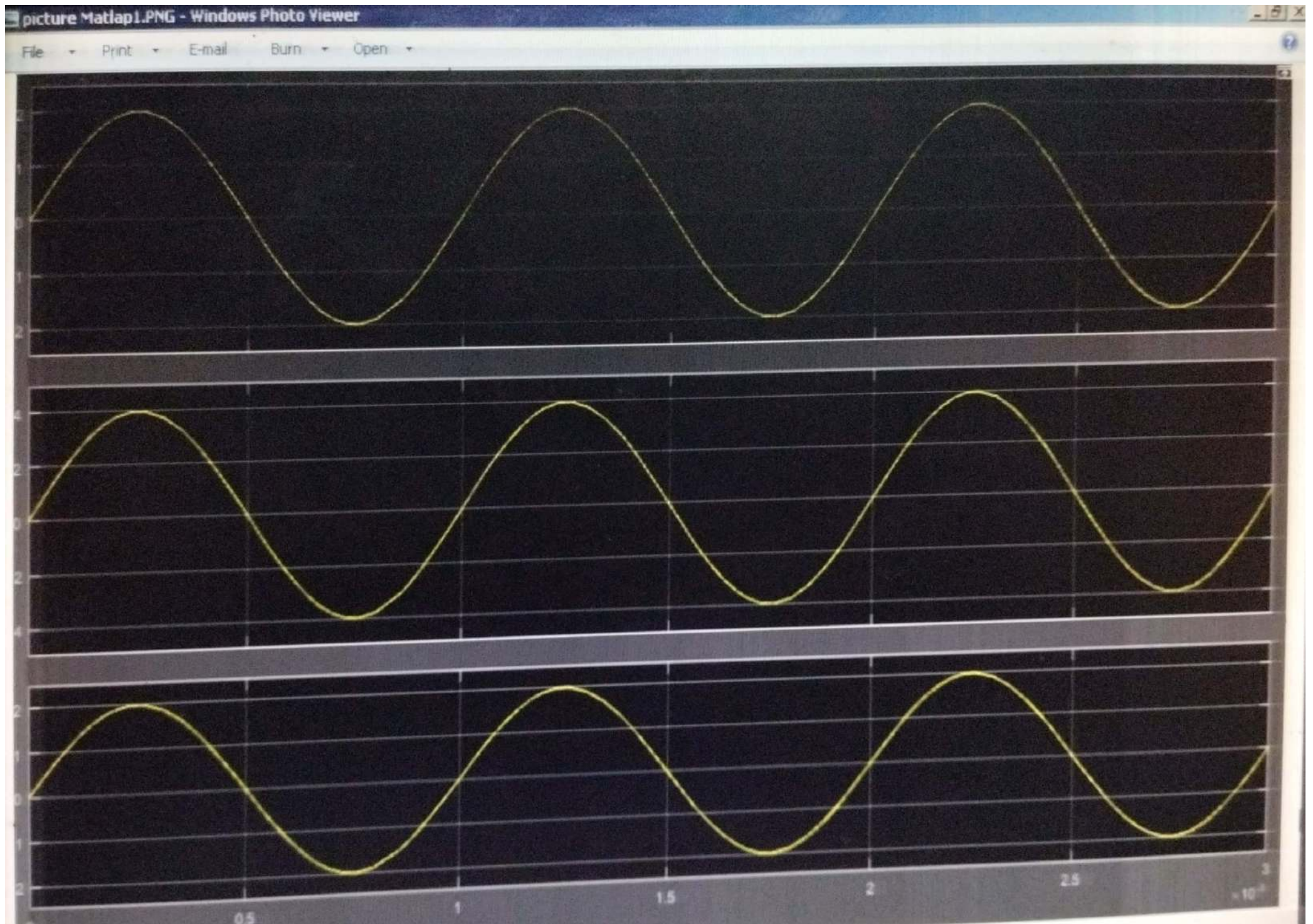
The difference between an op-amp circuit

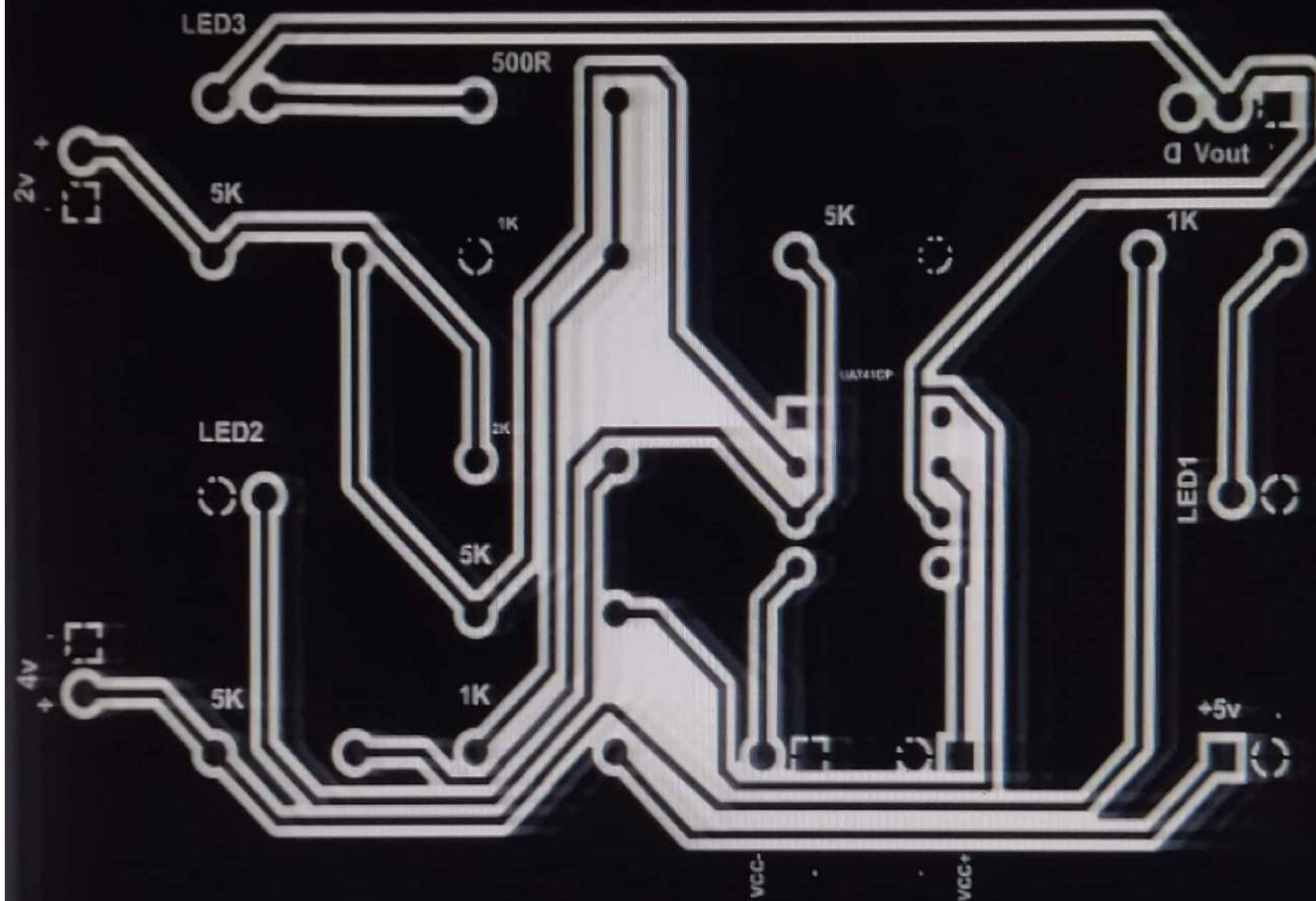
power and Main Circuit



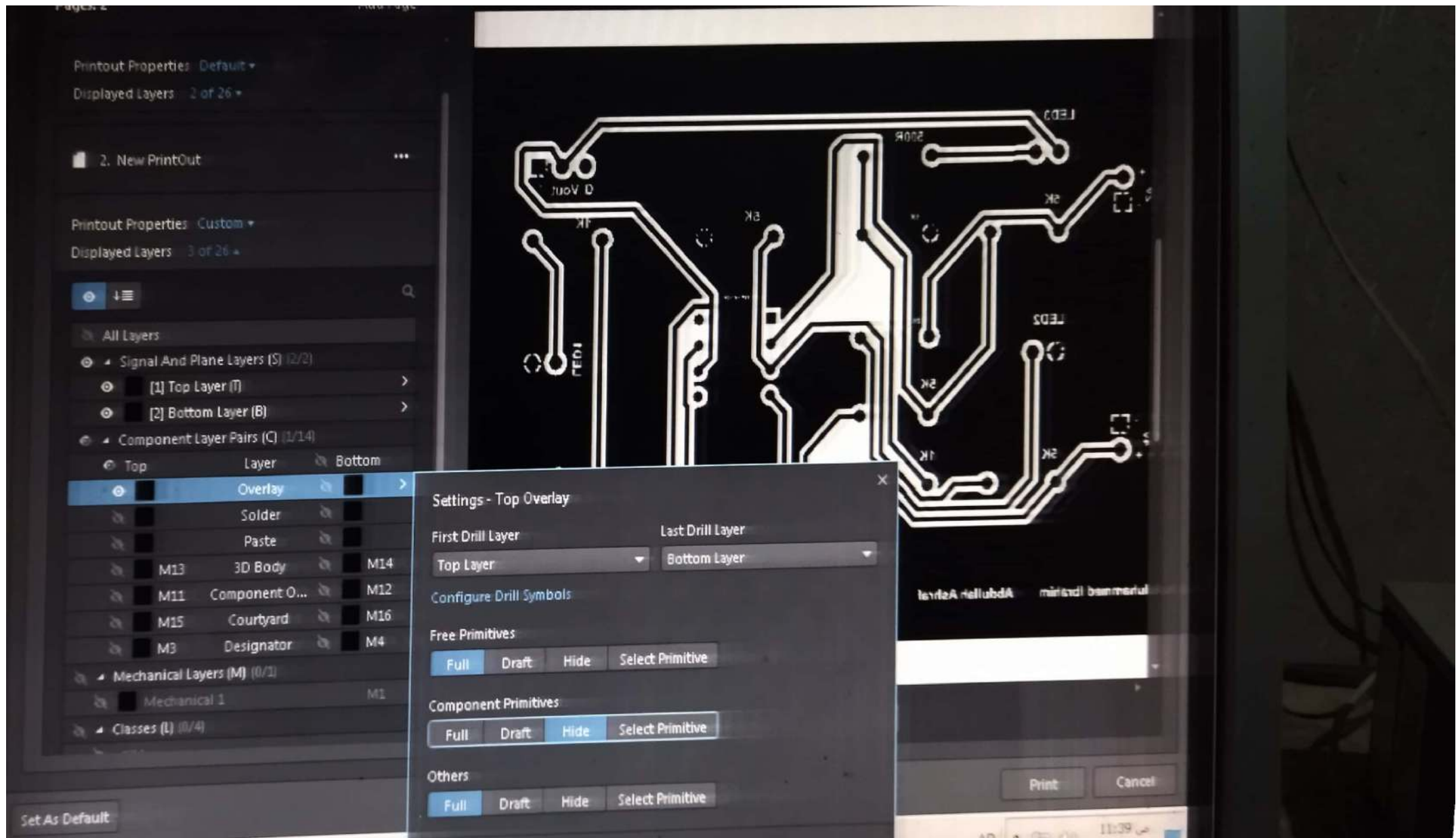
Post Upper: power out and Output Digital Arduino

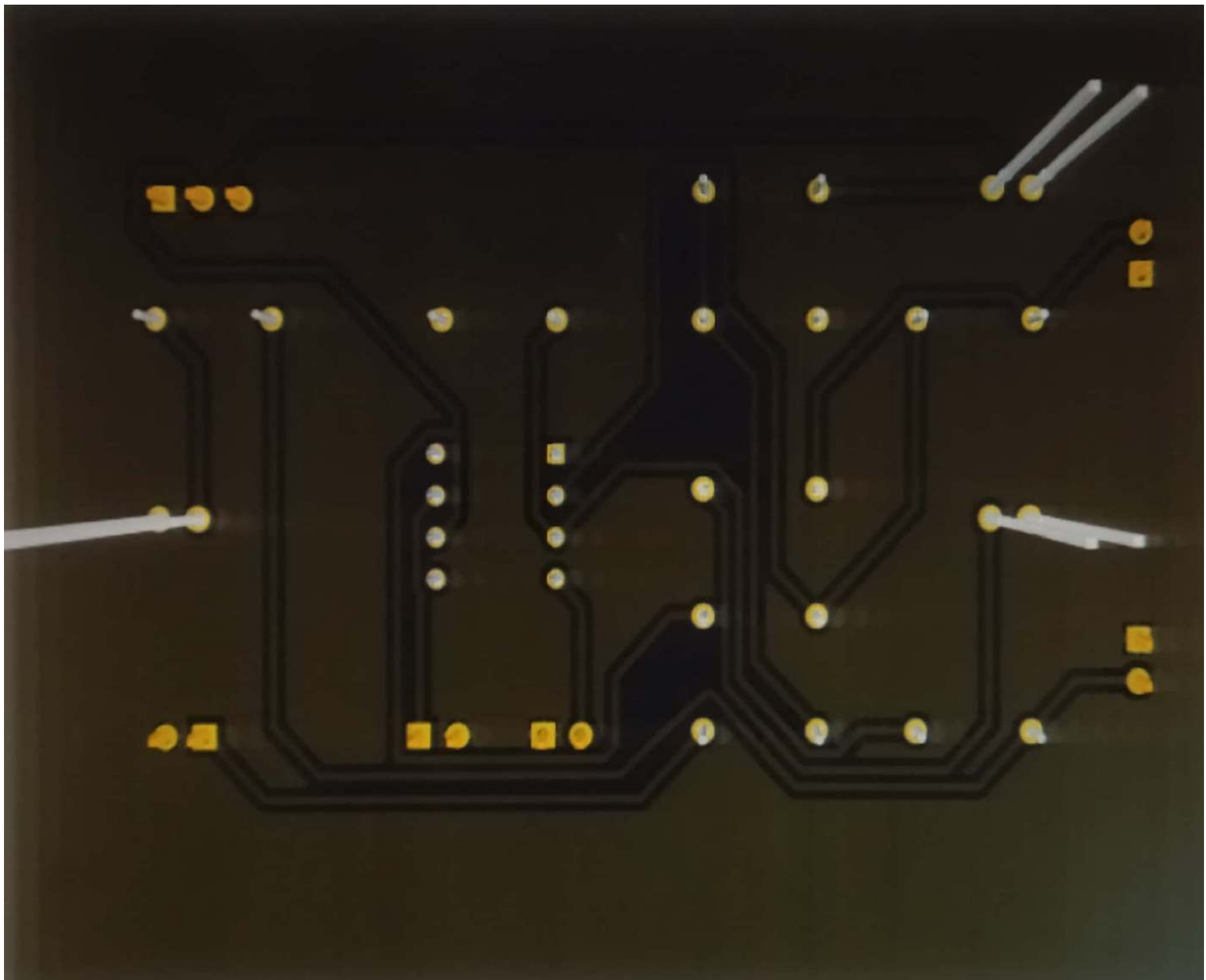




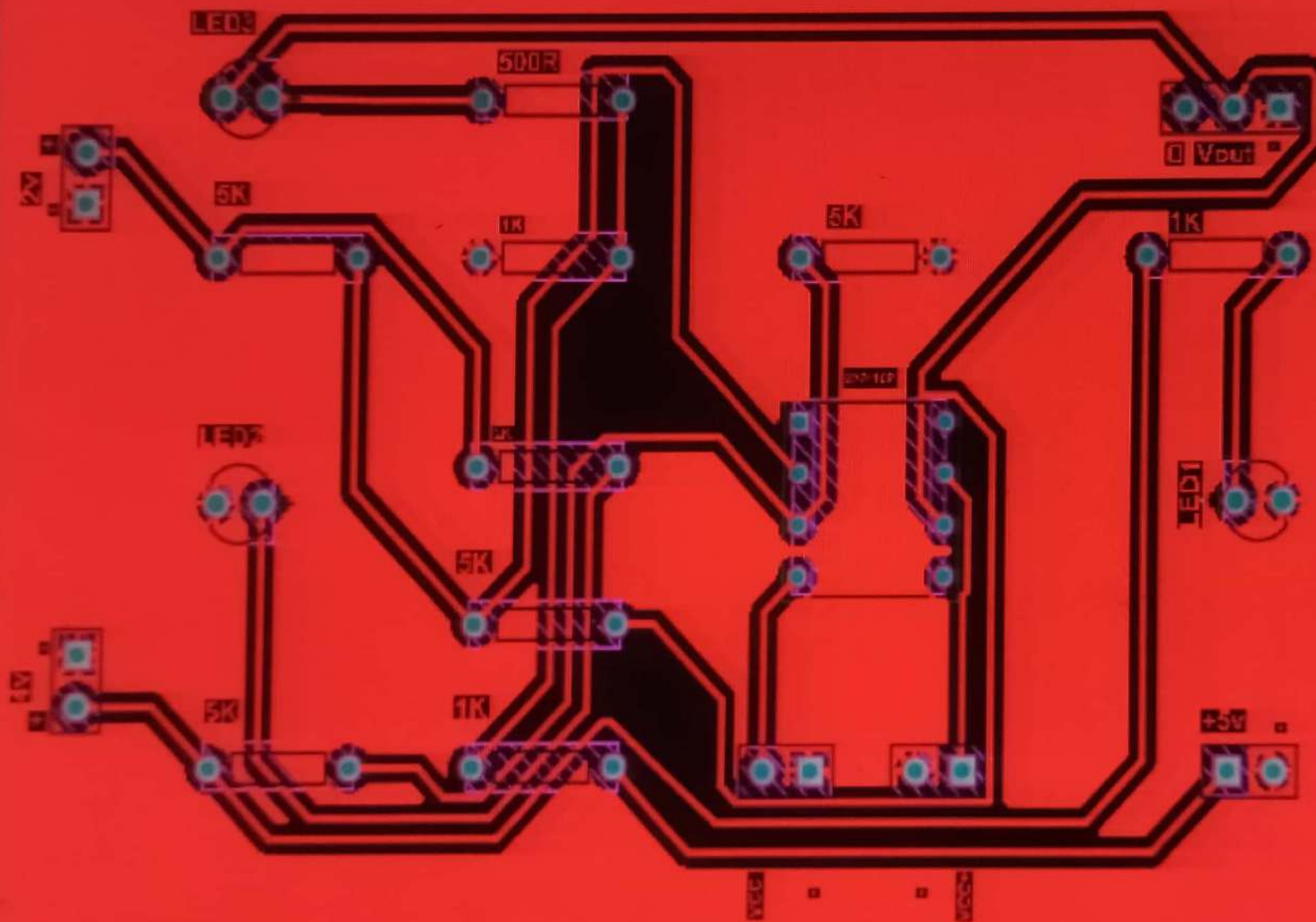


Muhammed Ibrahim Abdullah Ashraf AbdulRhman Al Husein Muhammed Abo alhasan Ziad Emad









Muhammed Ibrahim

Abdullah Ashraf

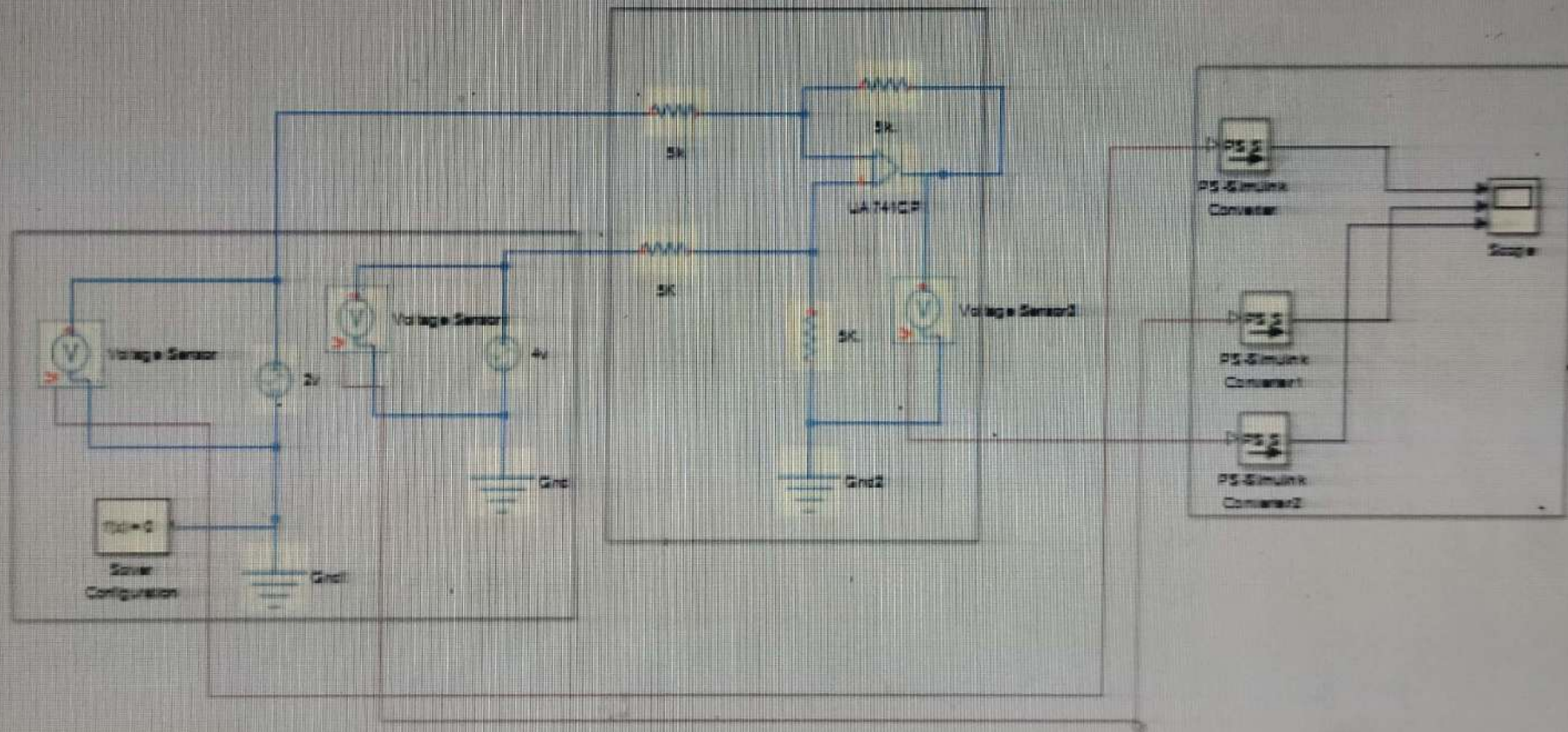
AbdulRhman Al Husein

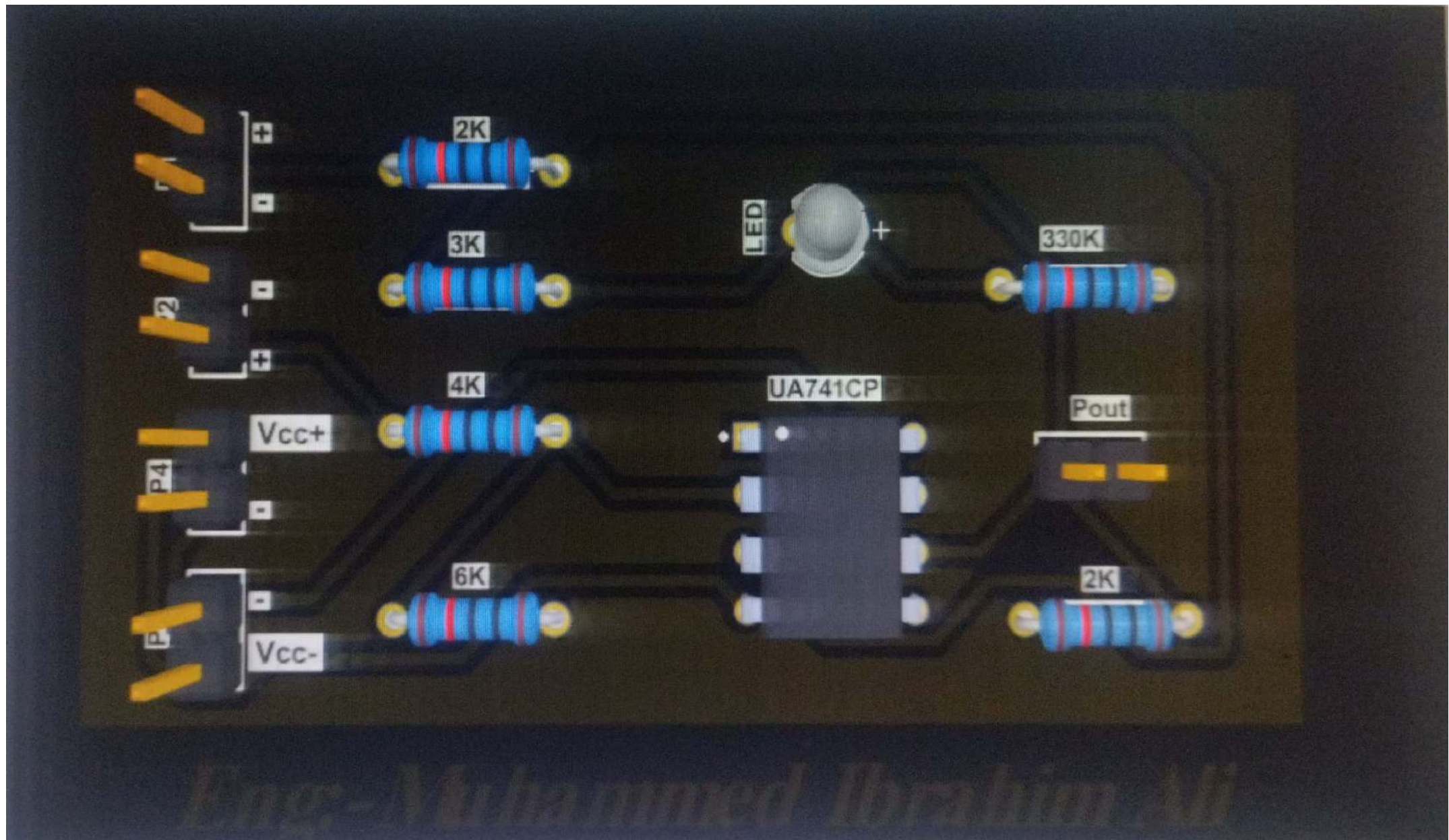
Muhammed Abo alhasan

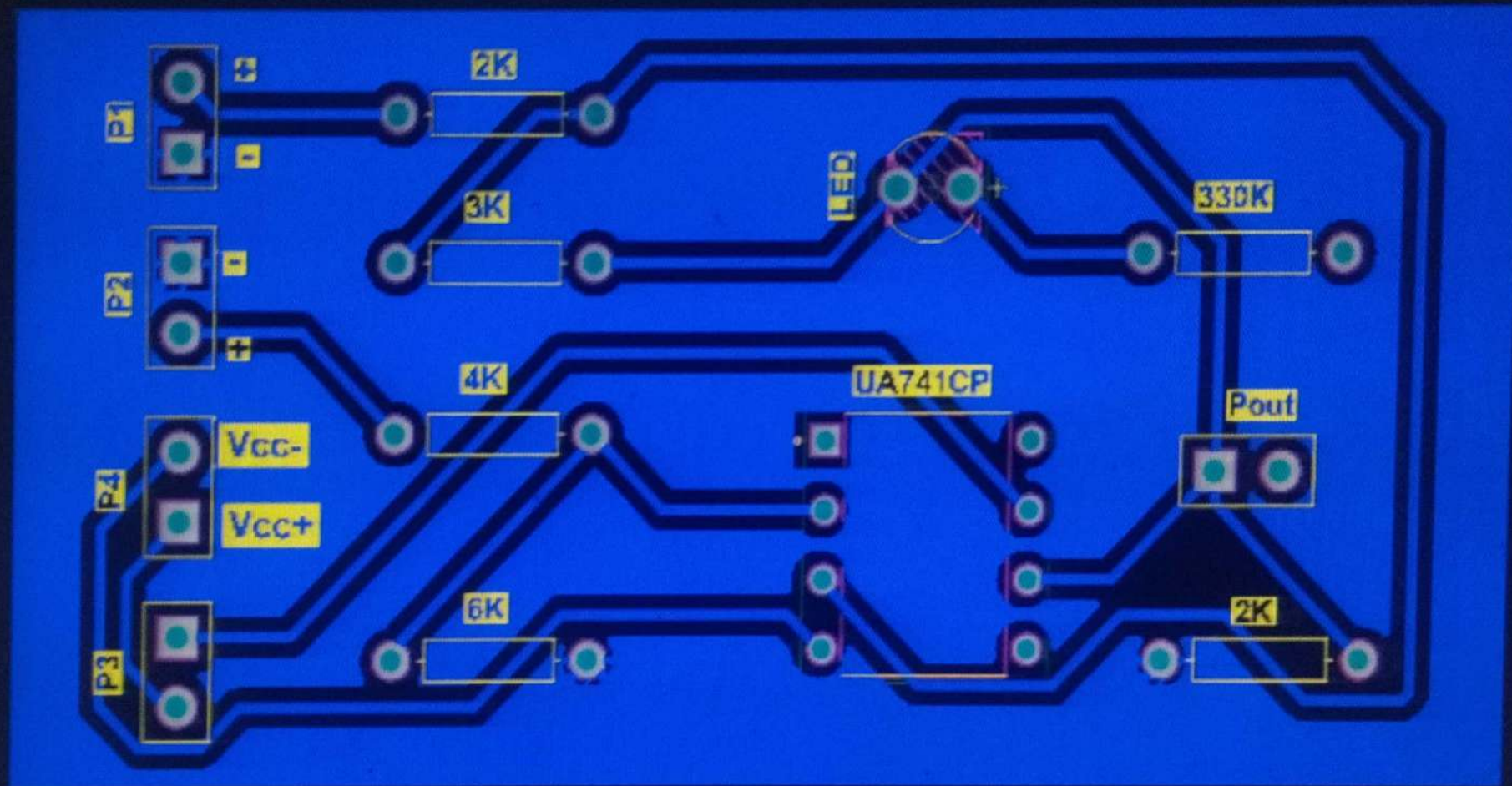
Zaid Emad

Name: **Muhammed Ibrahim Ali**

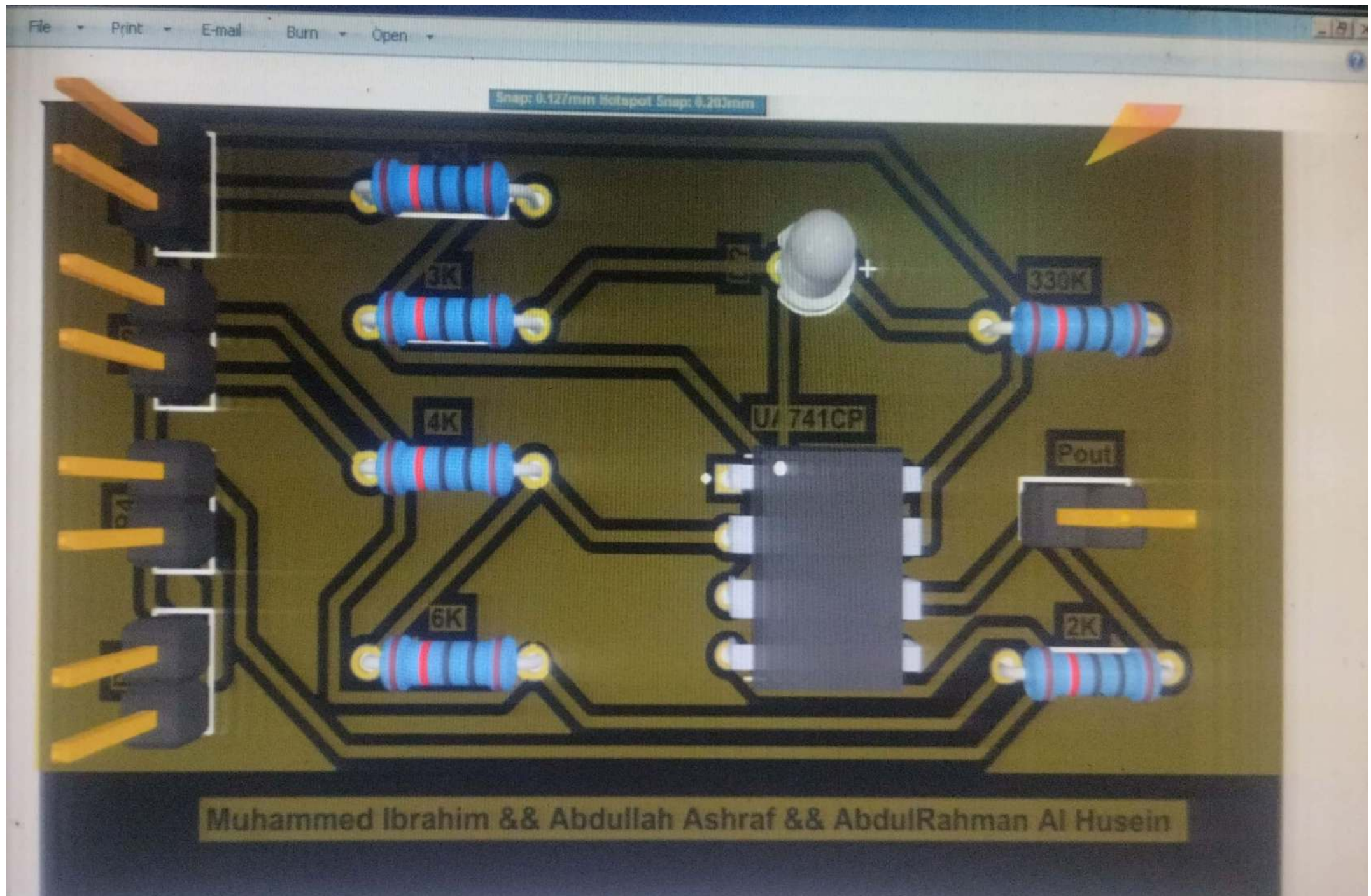
Design and Simulation of a Difference Amplifier in MATLAB / SIMULINK / Subtractor / Op Amp

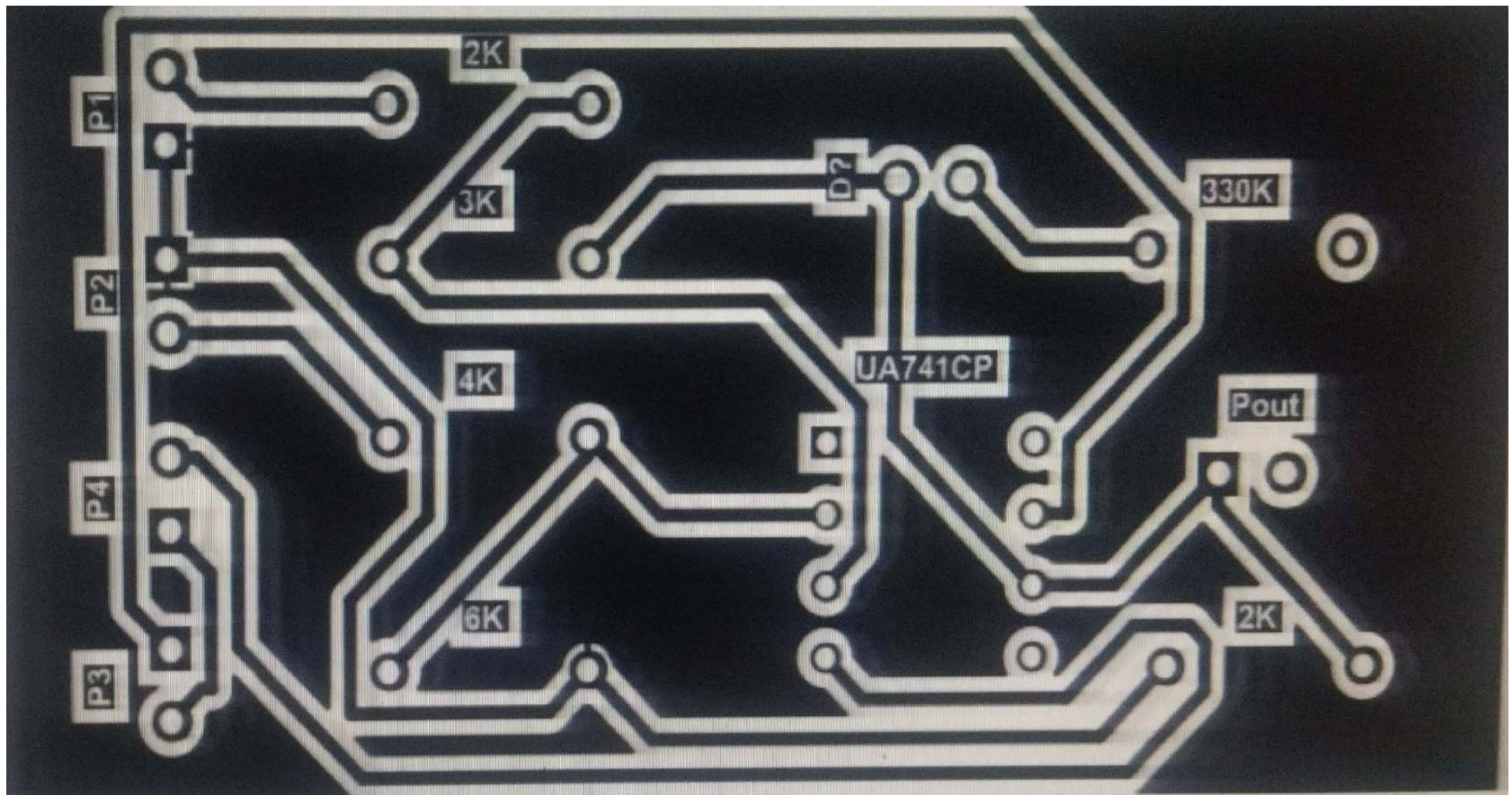


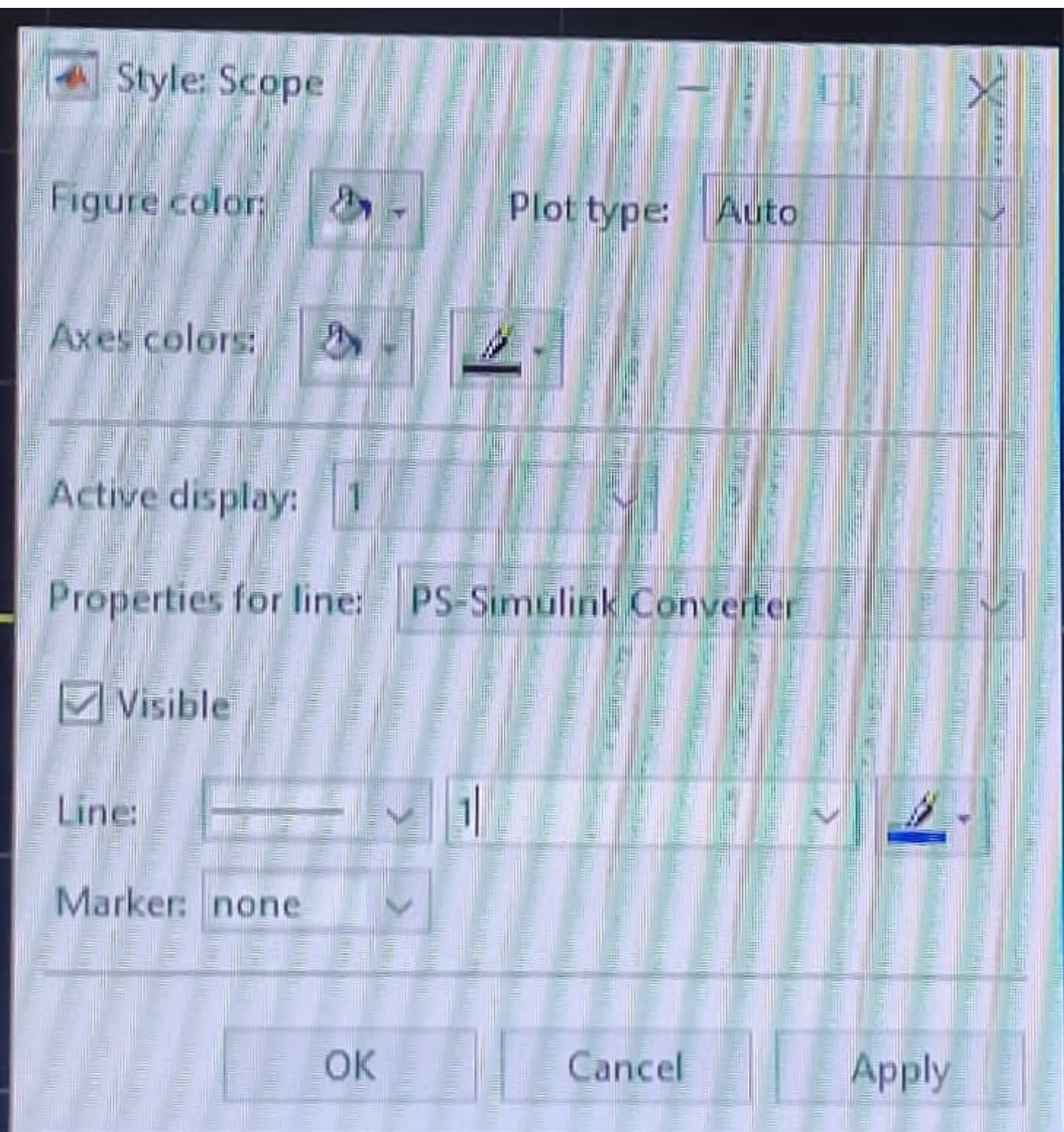


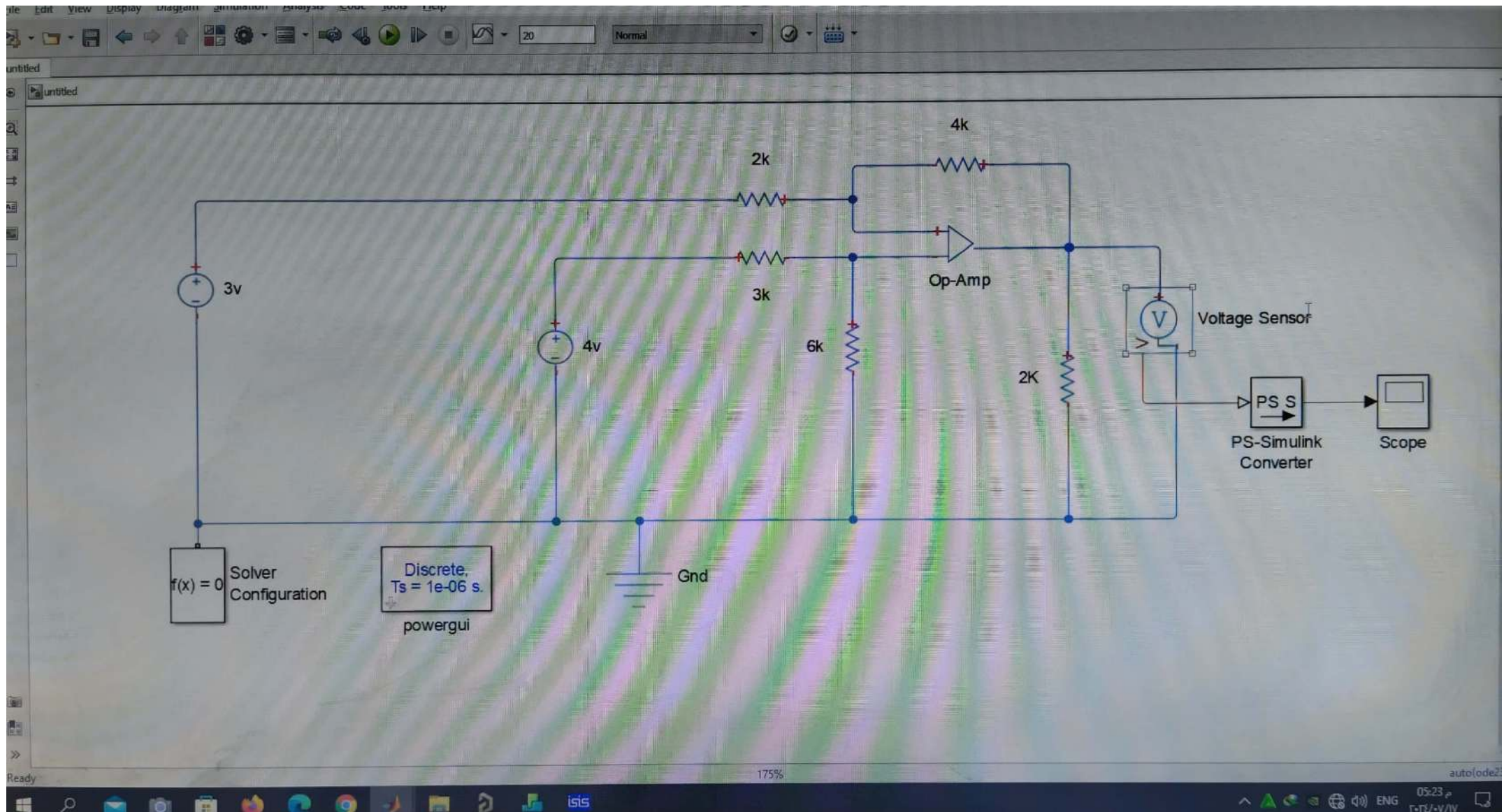


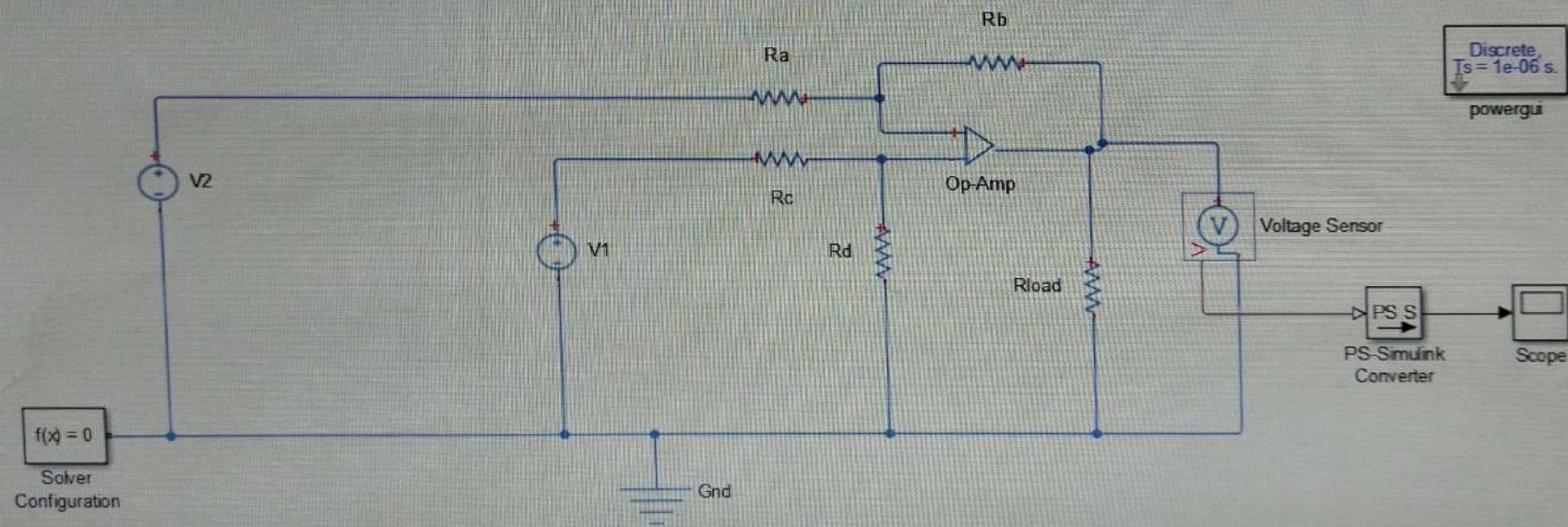
Eng:-Muhammed Ibrahim Ali

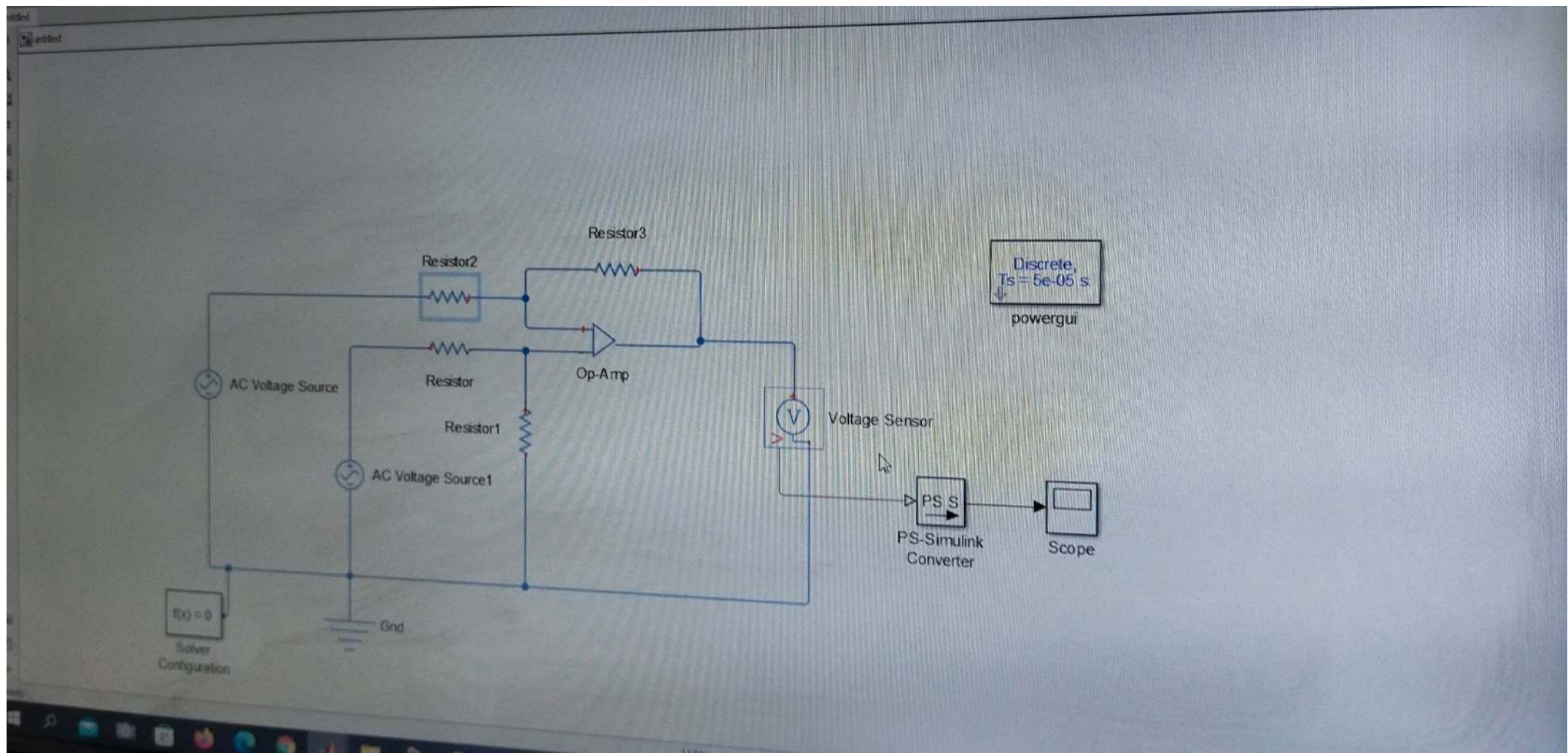


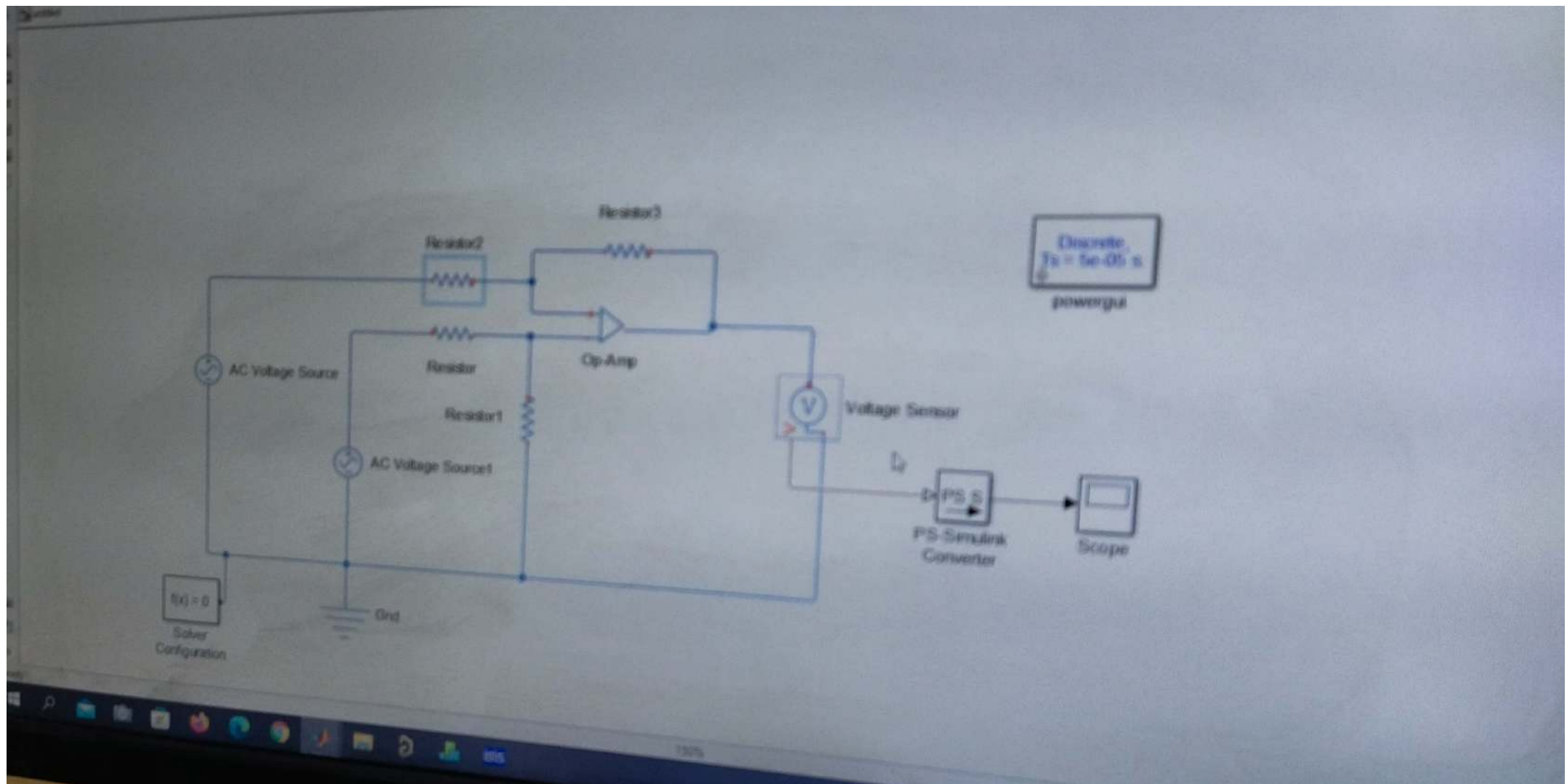


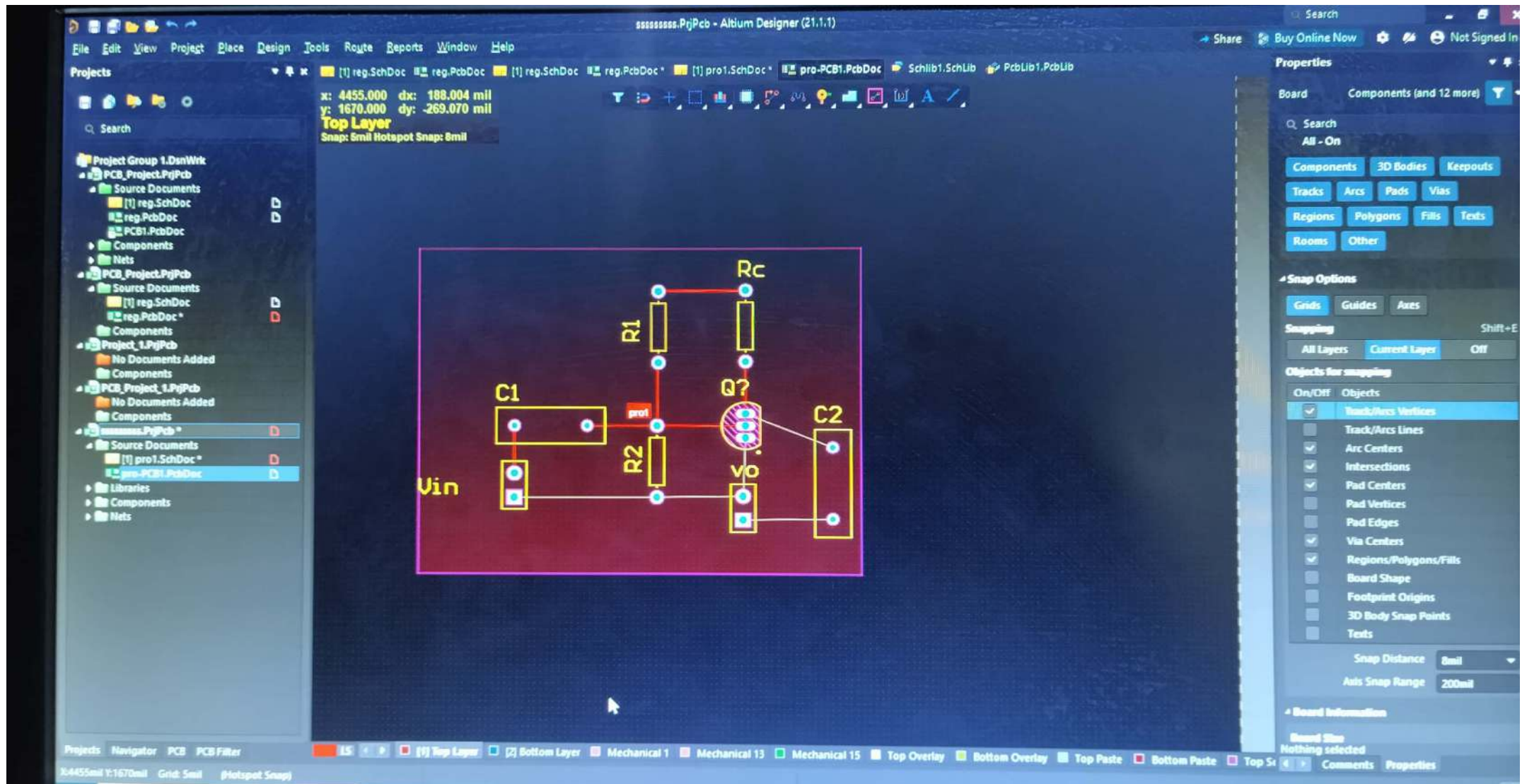


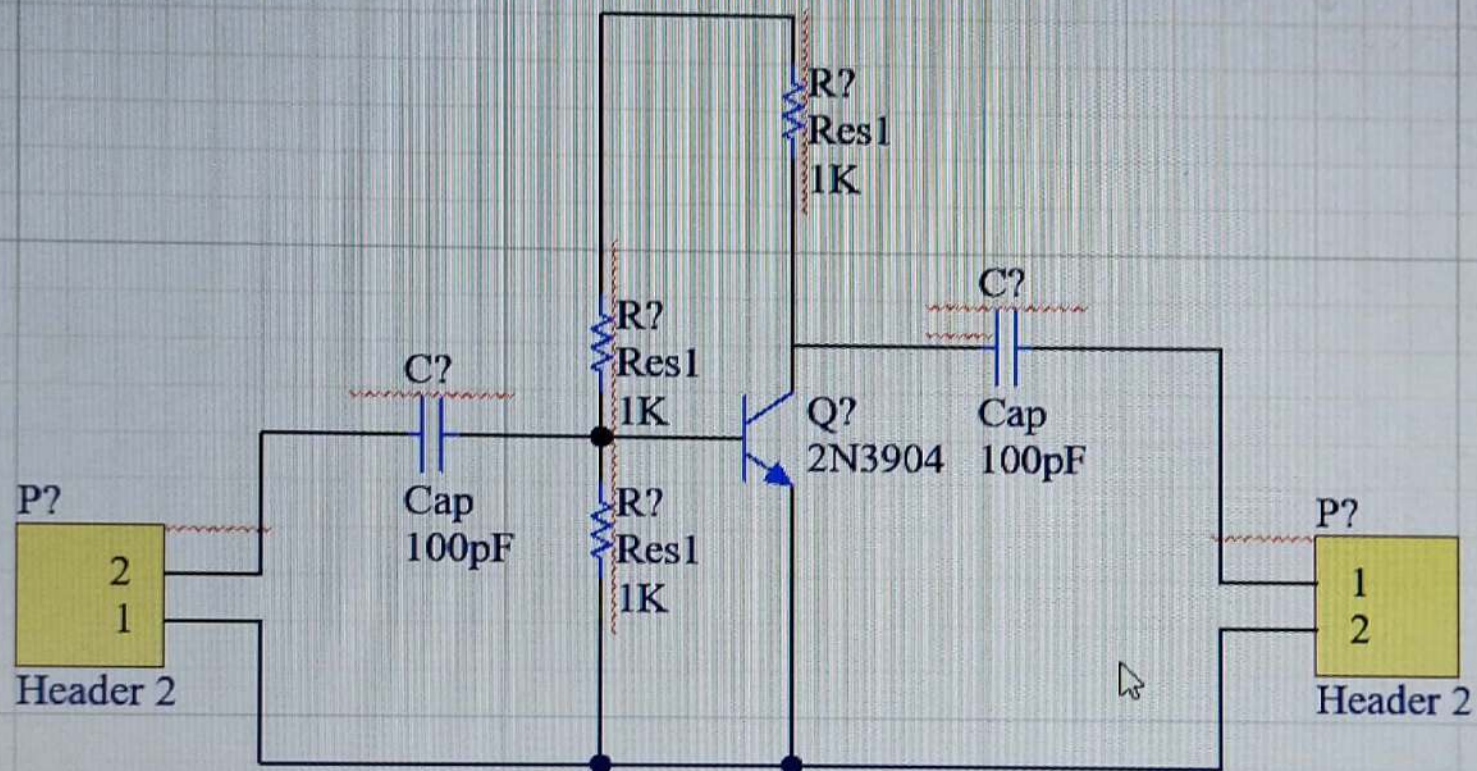


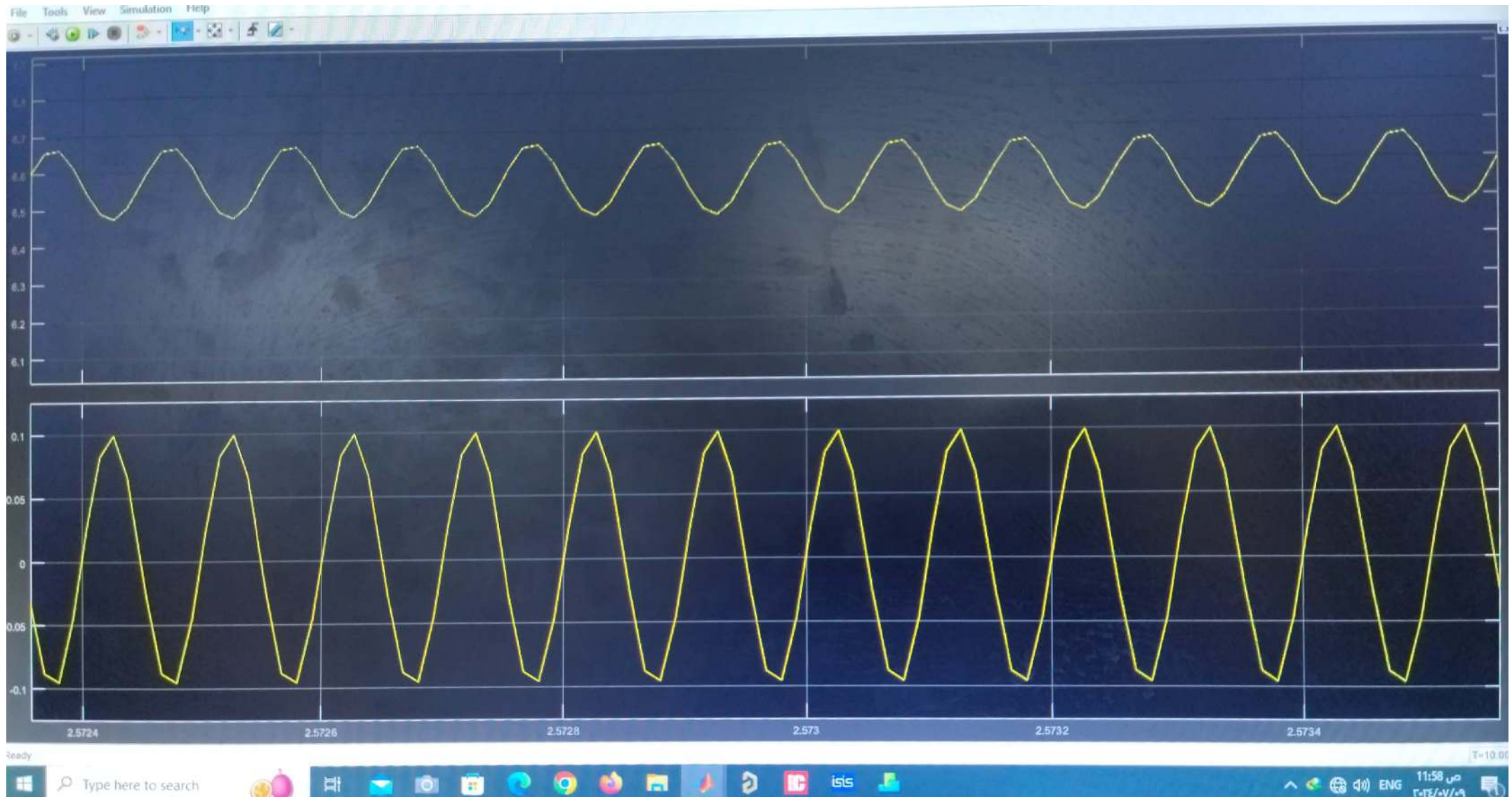


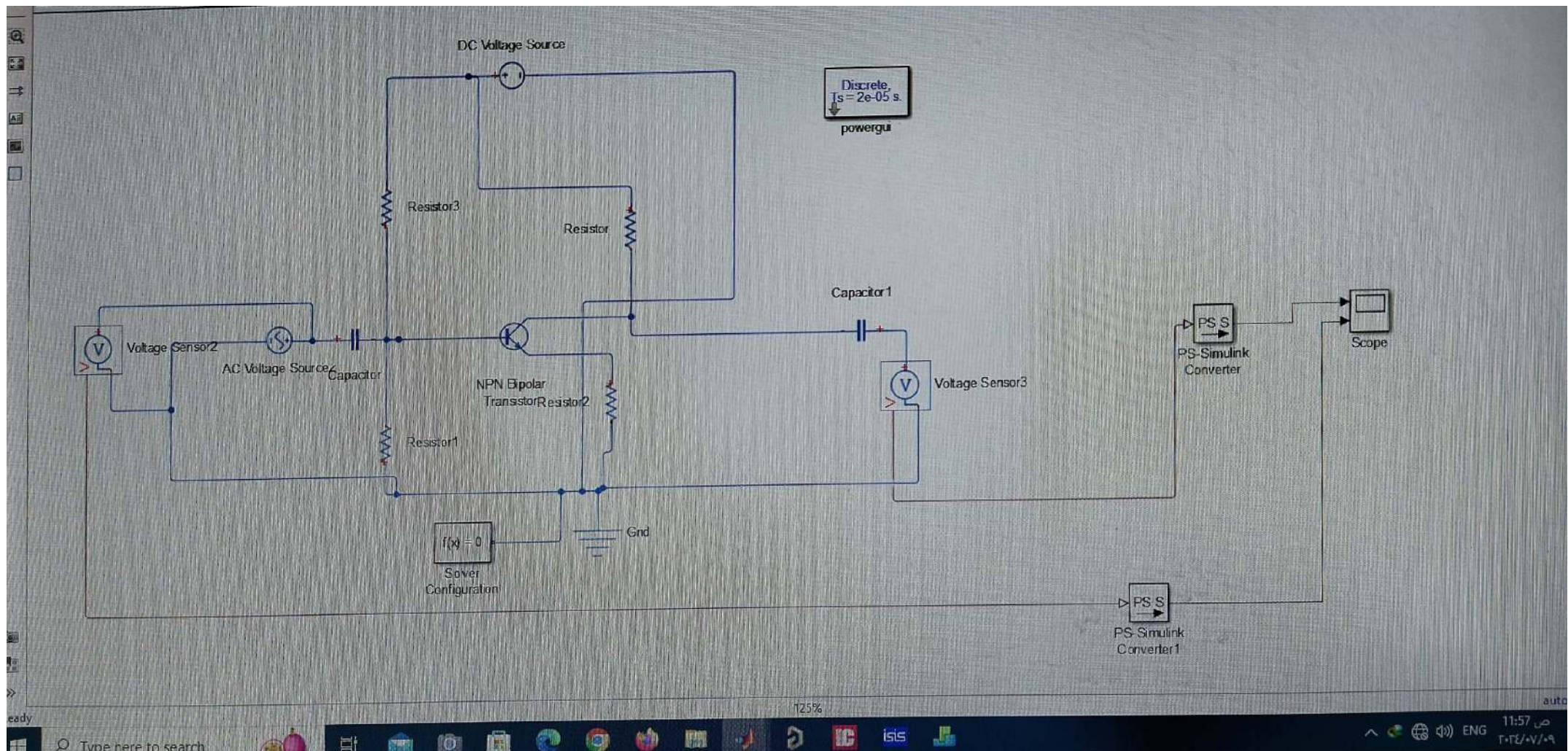


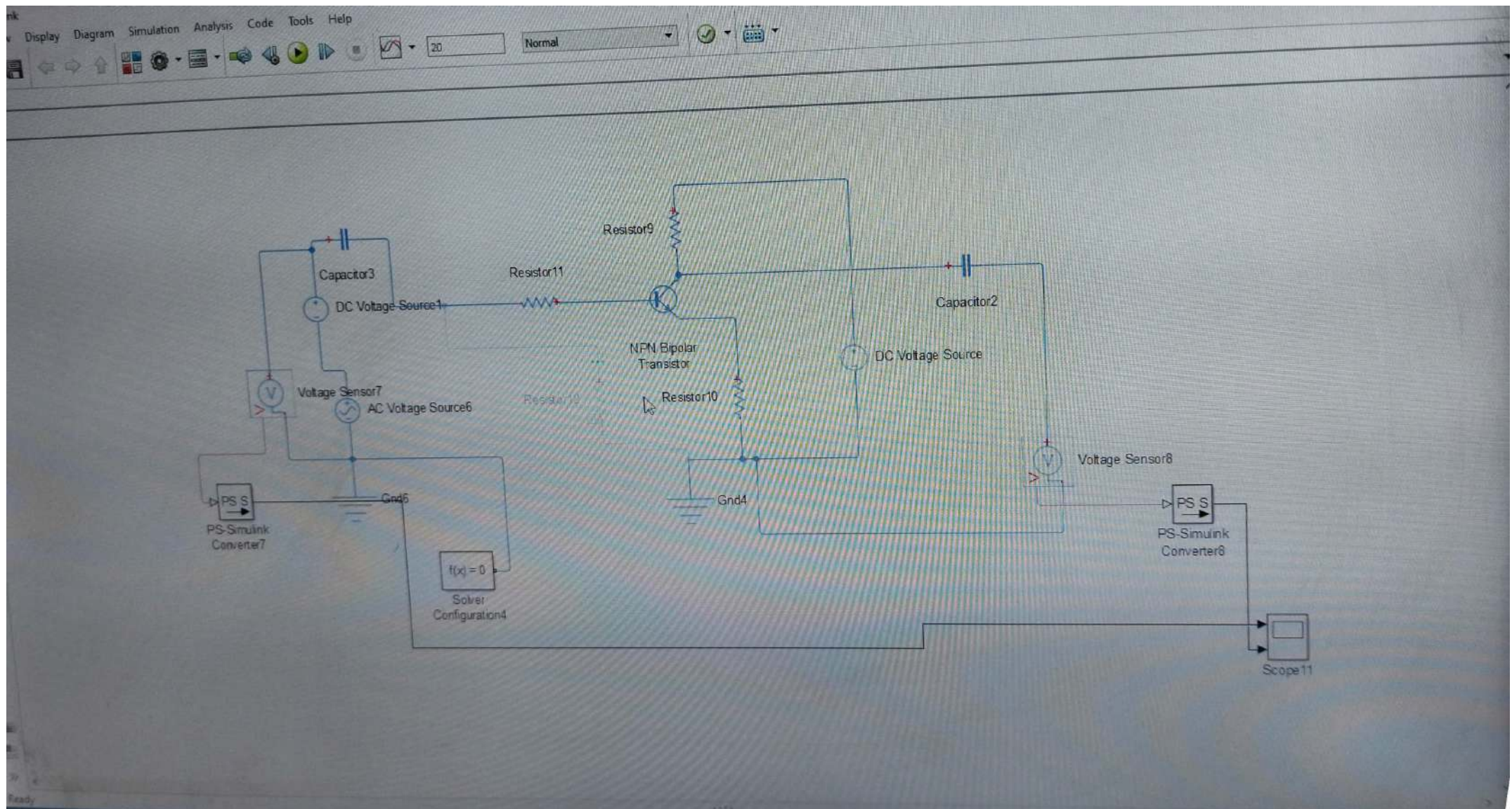


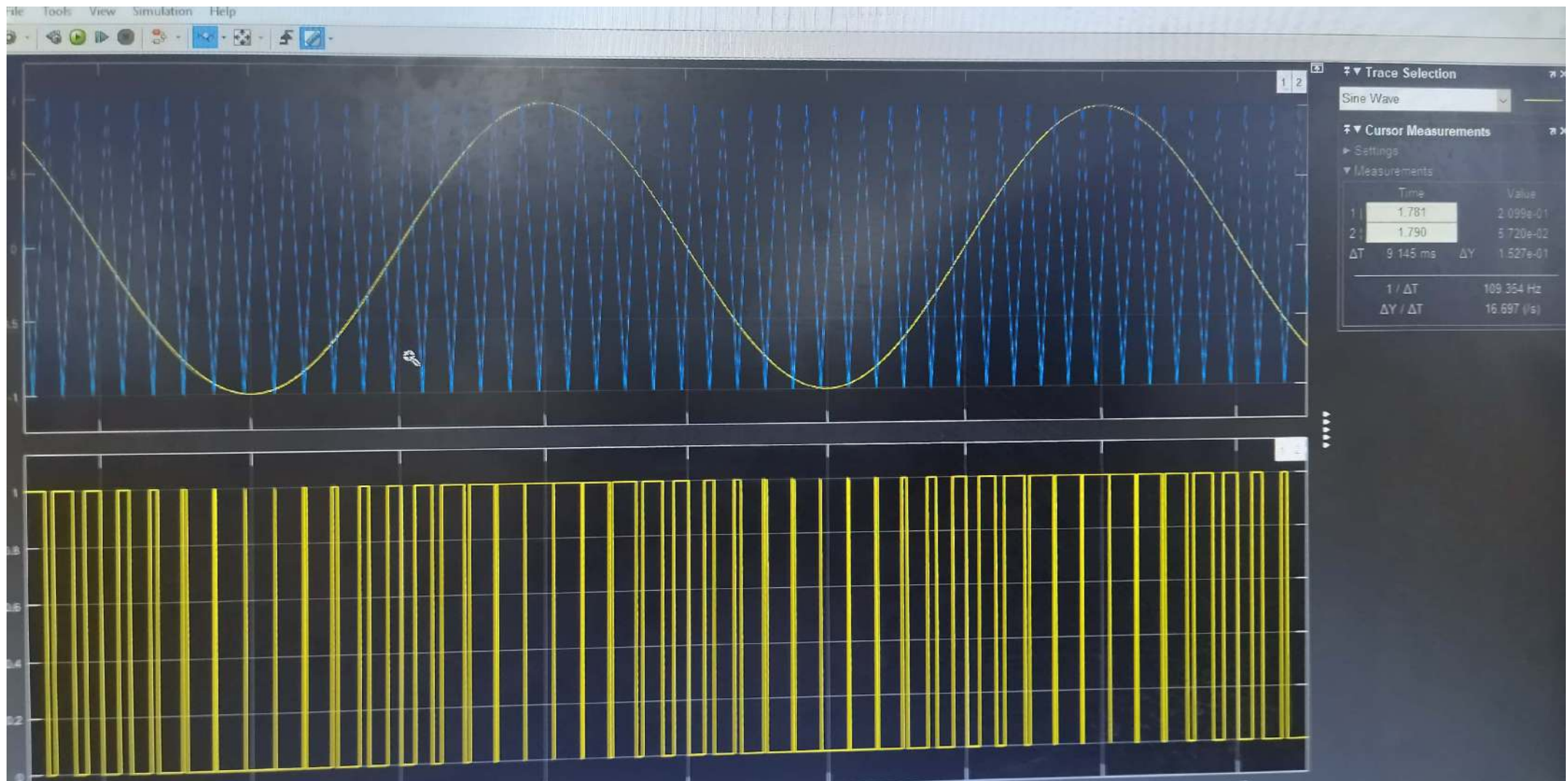


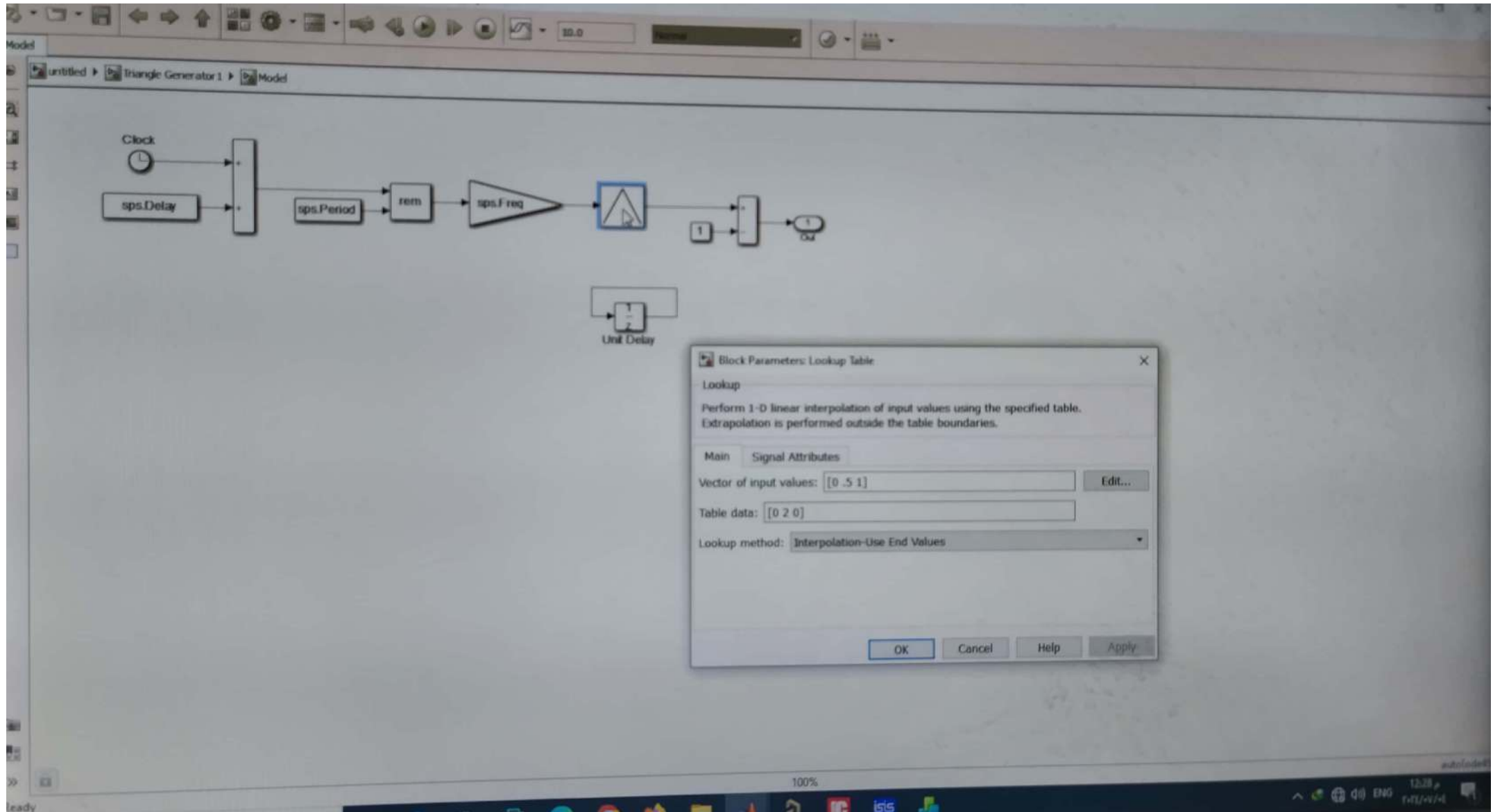


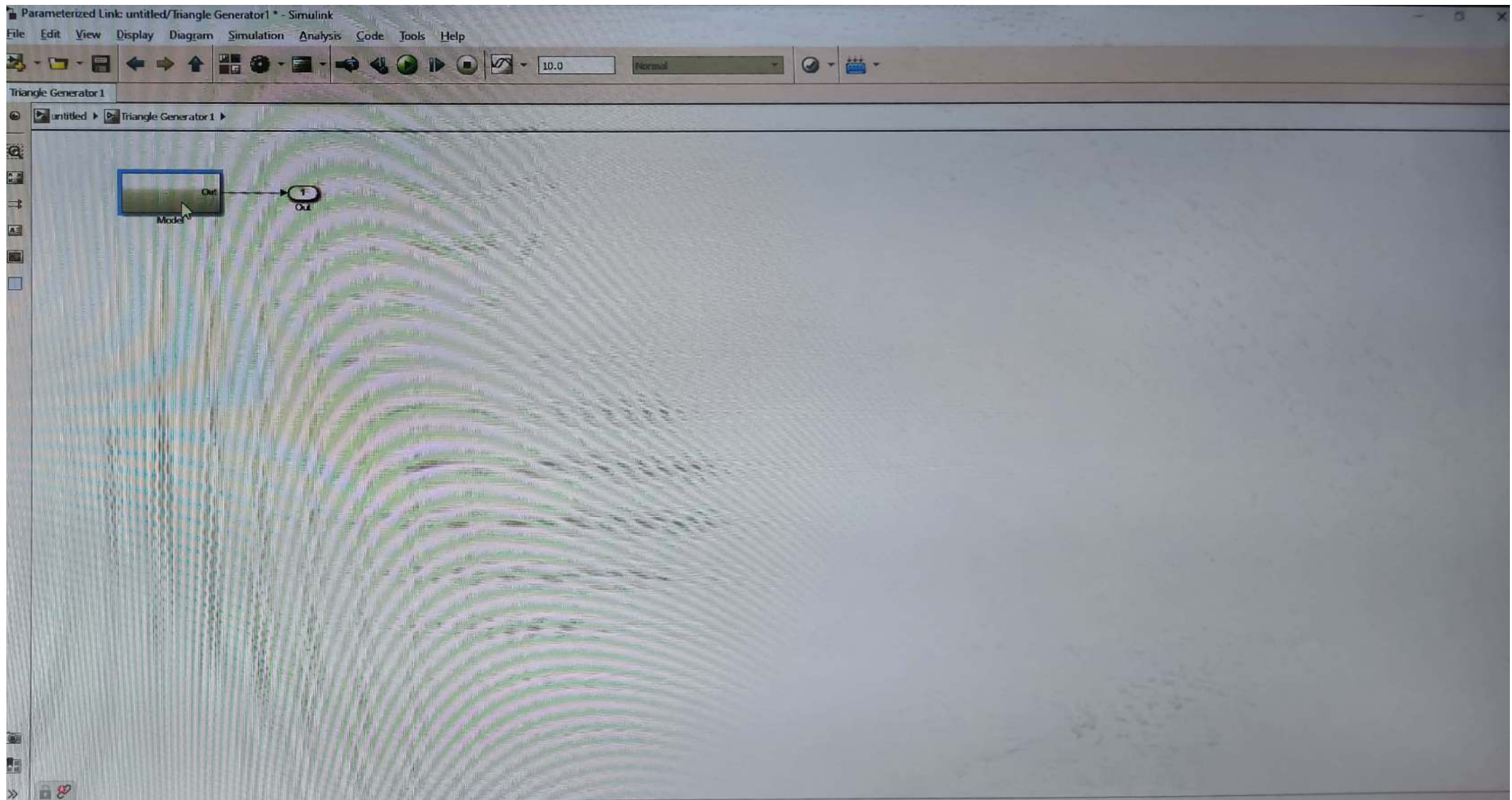


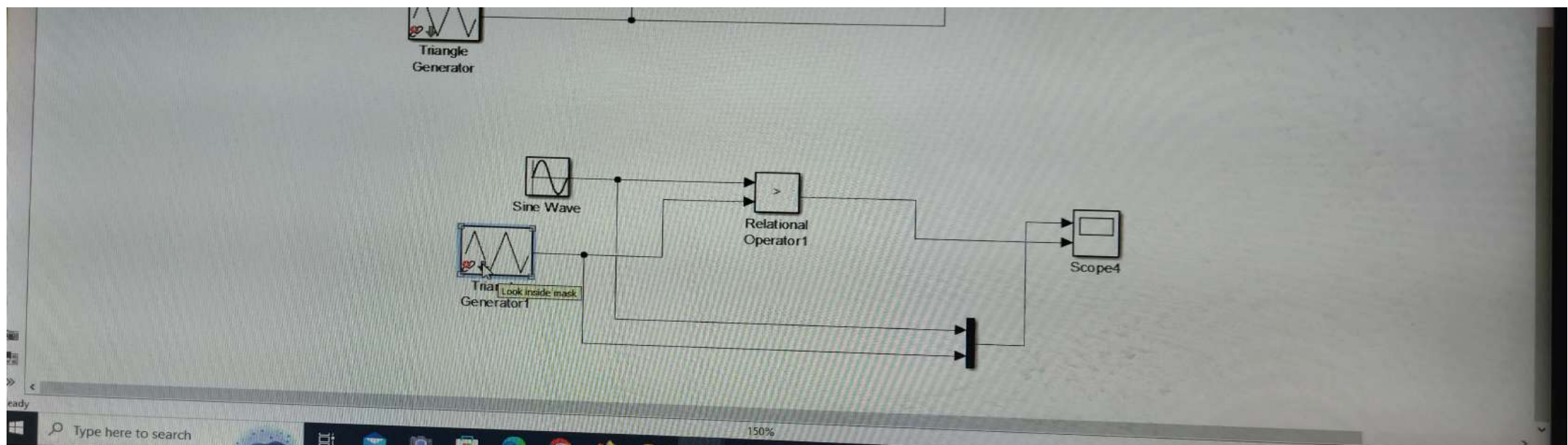


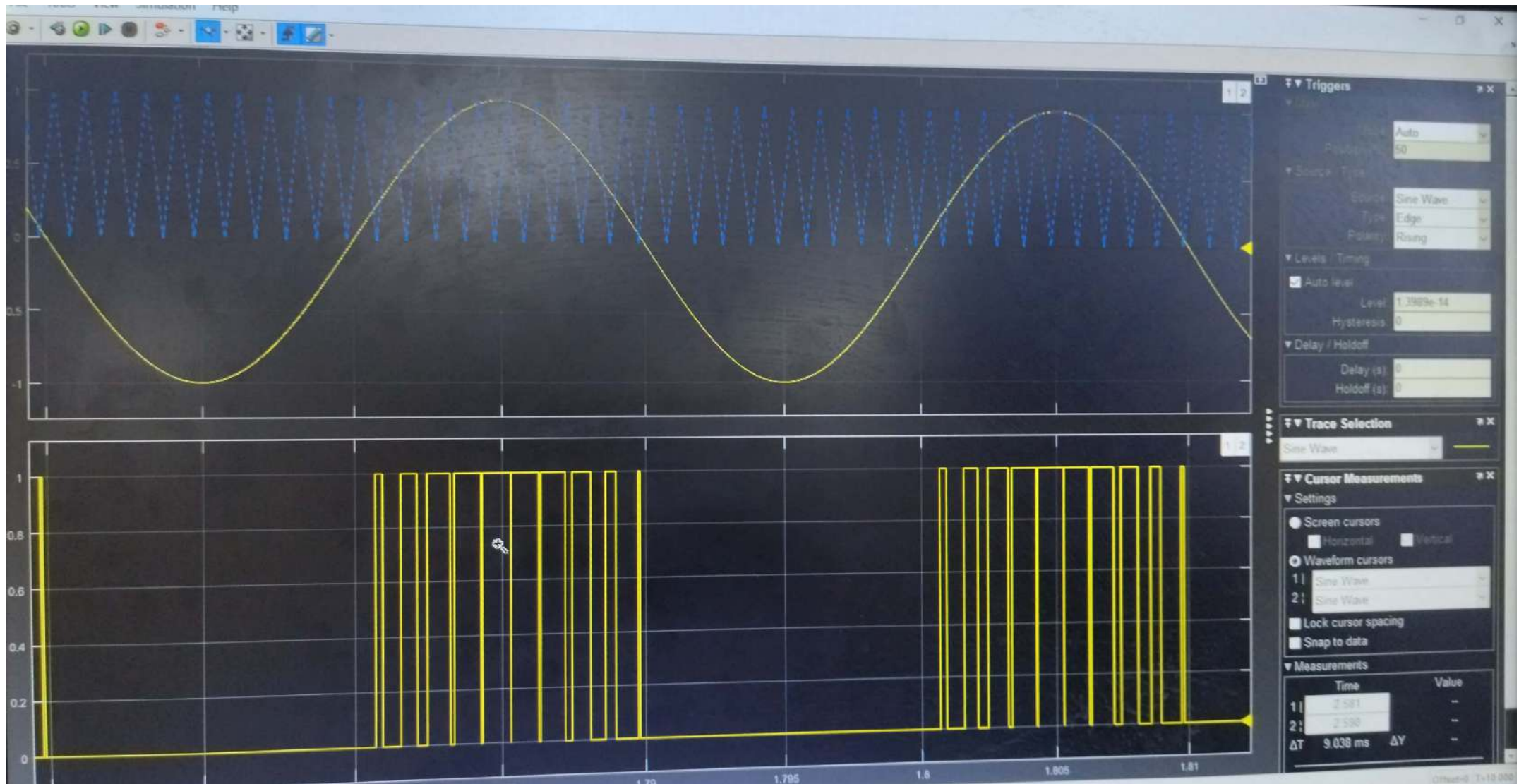


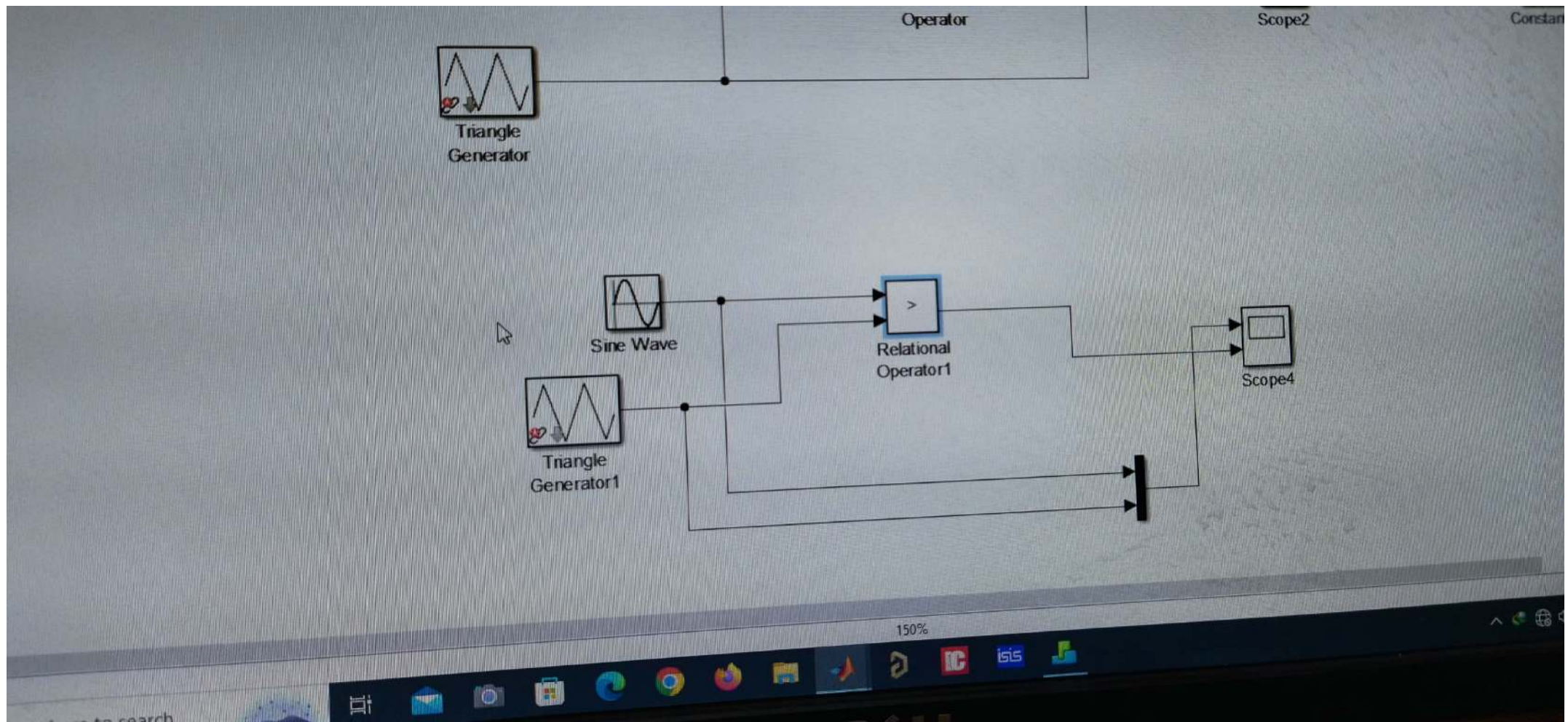


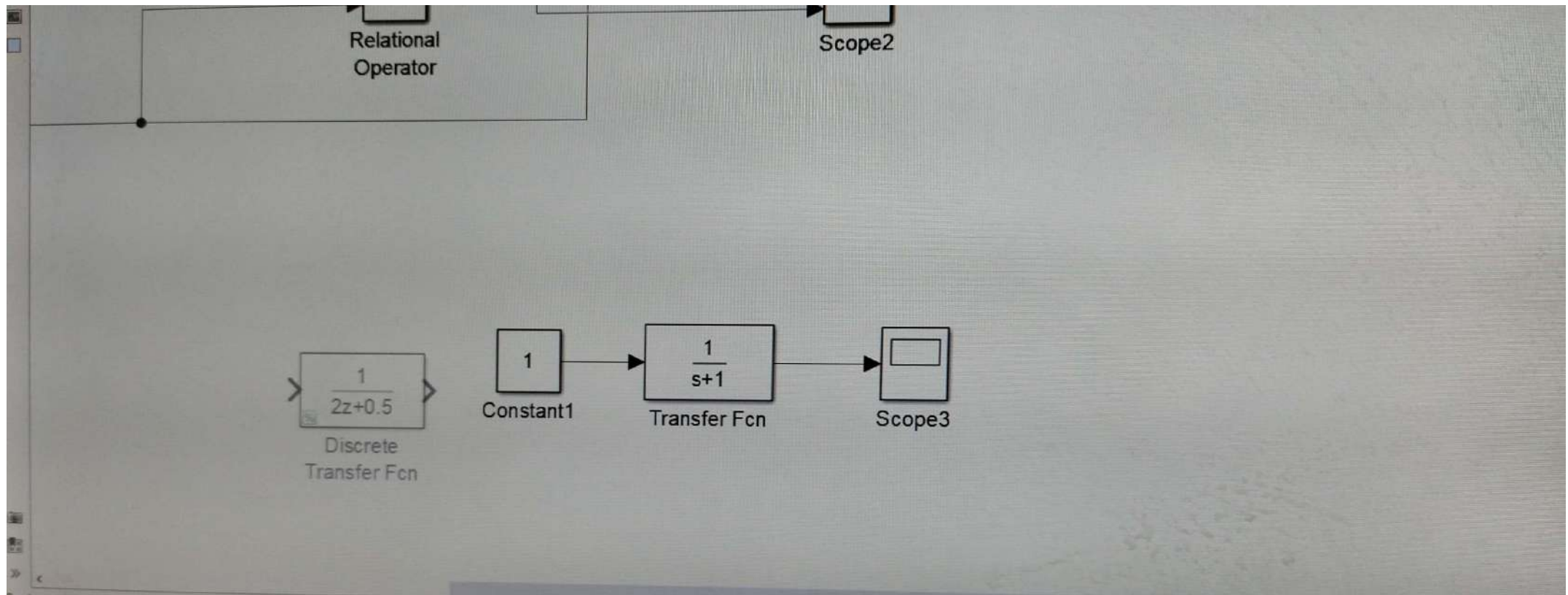


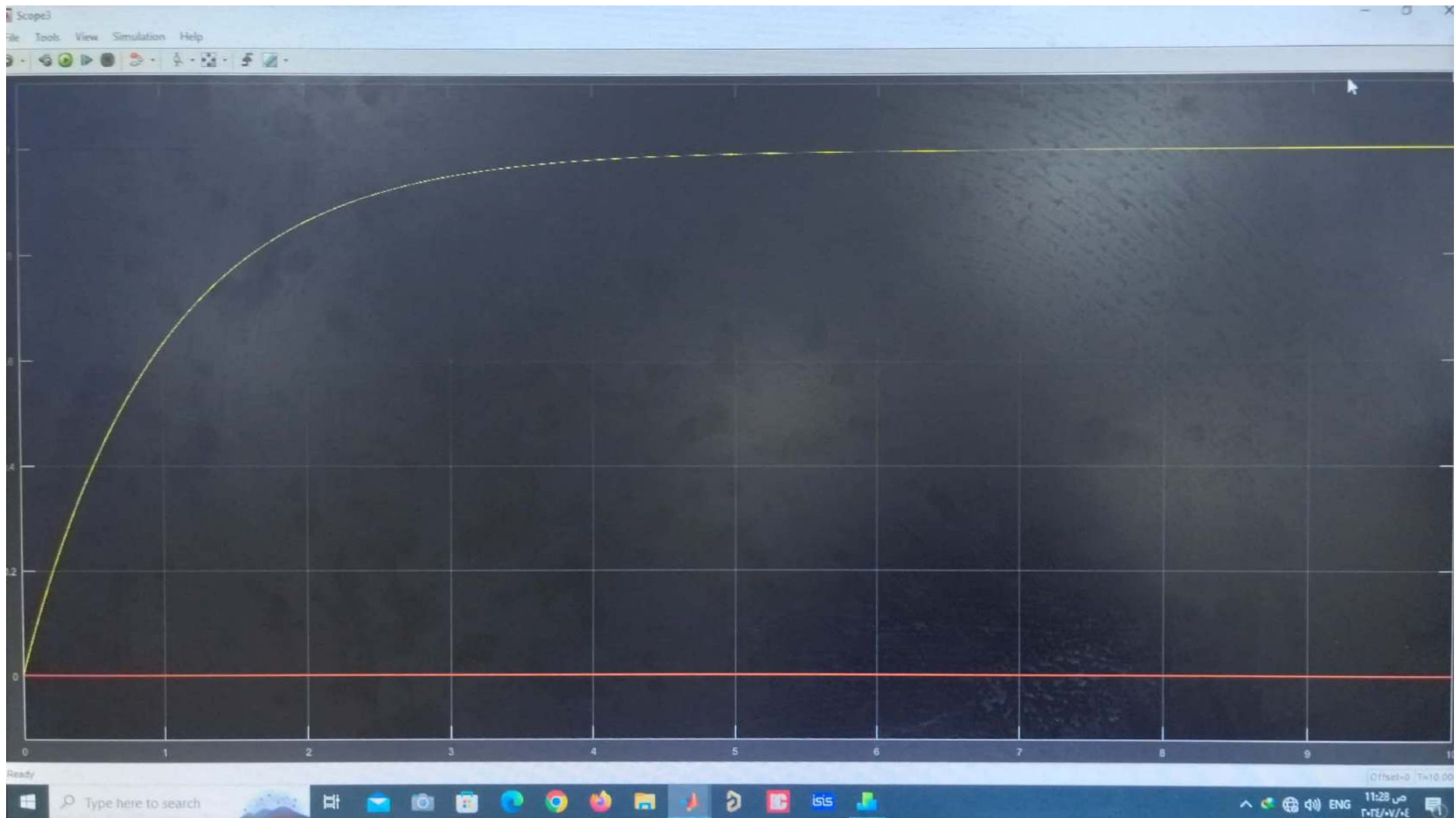


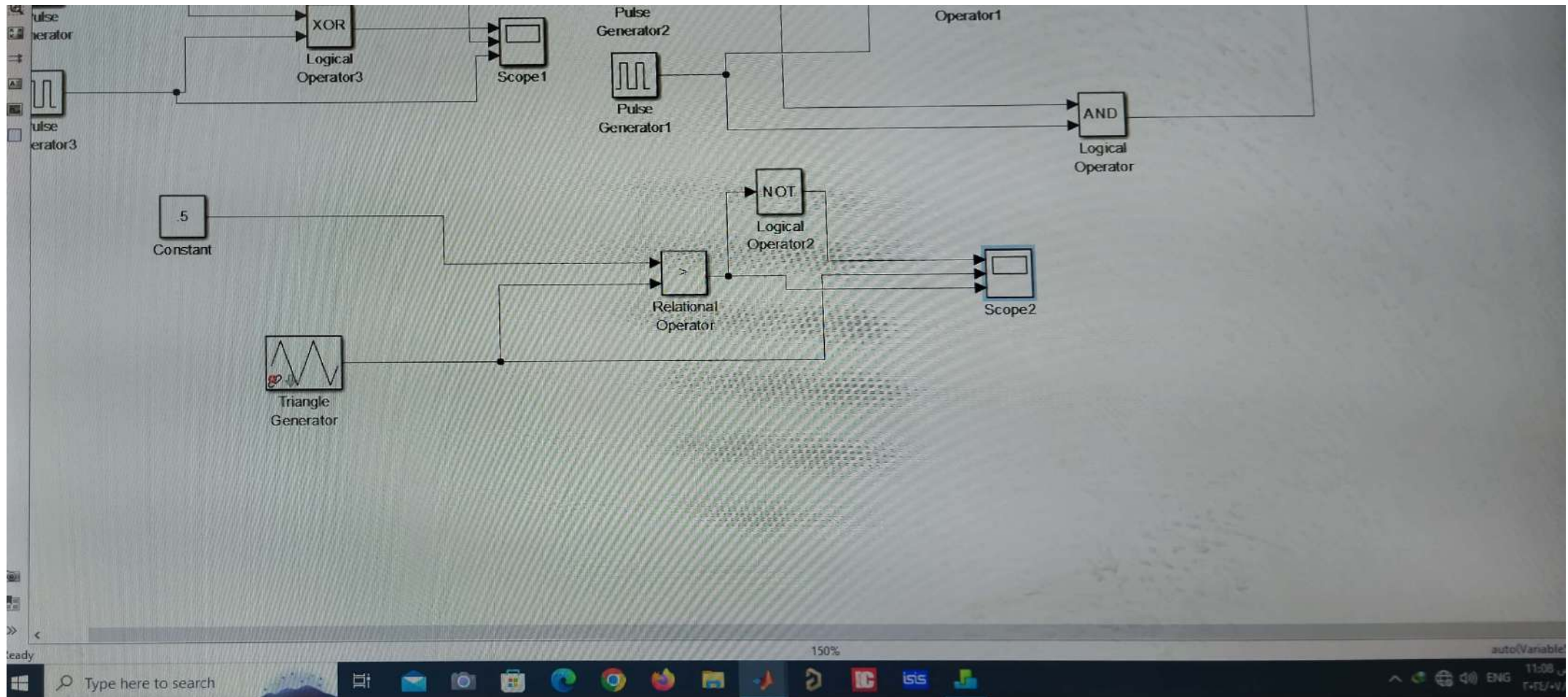


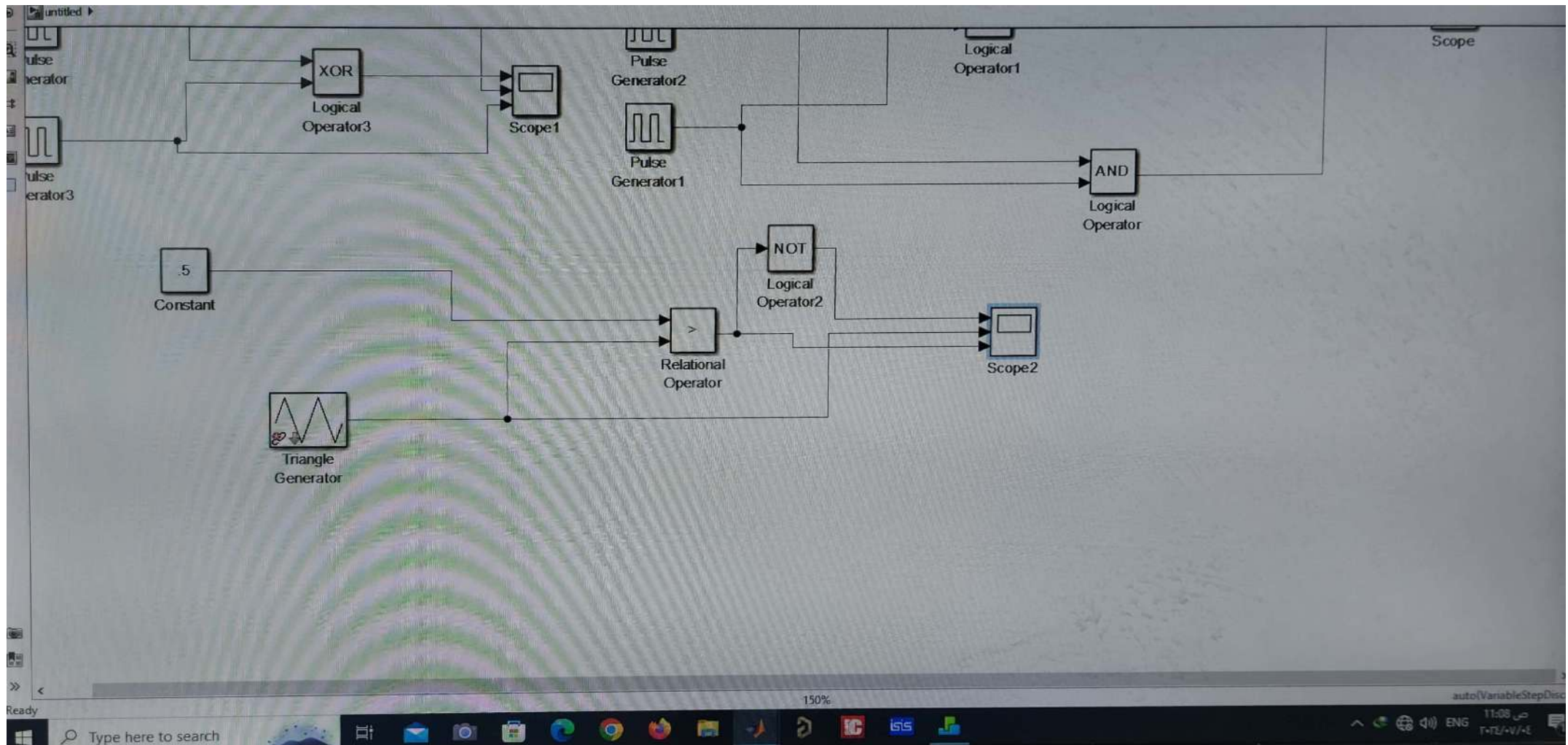


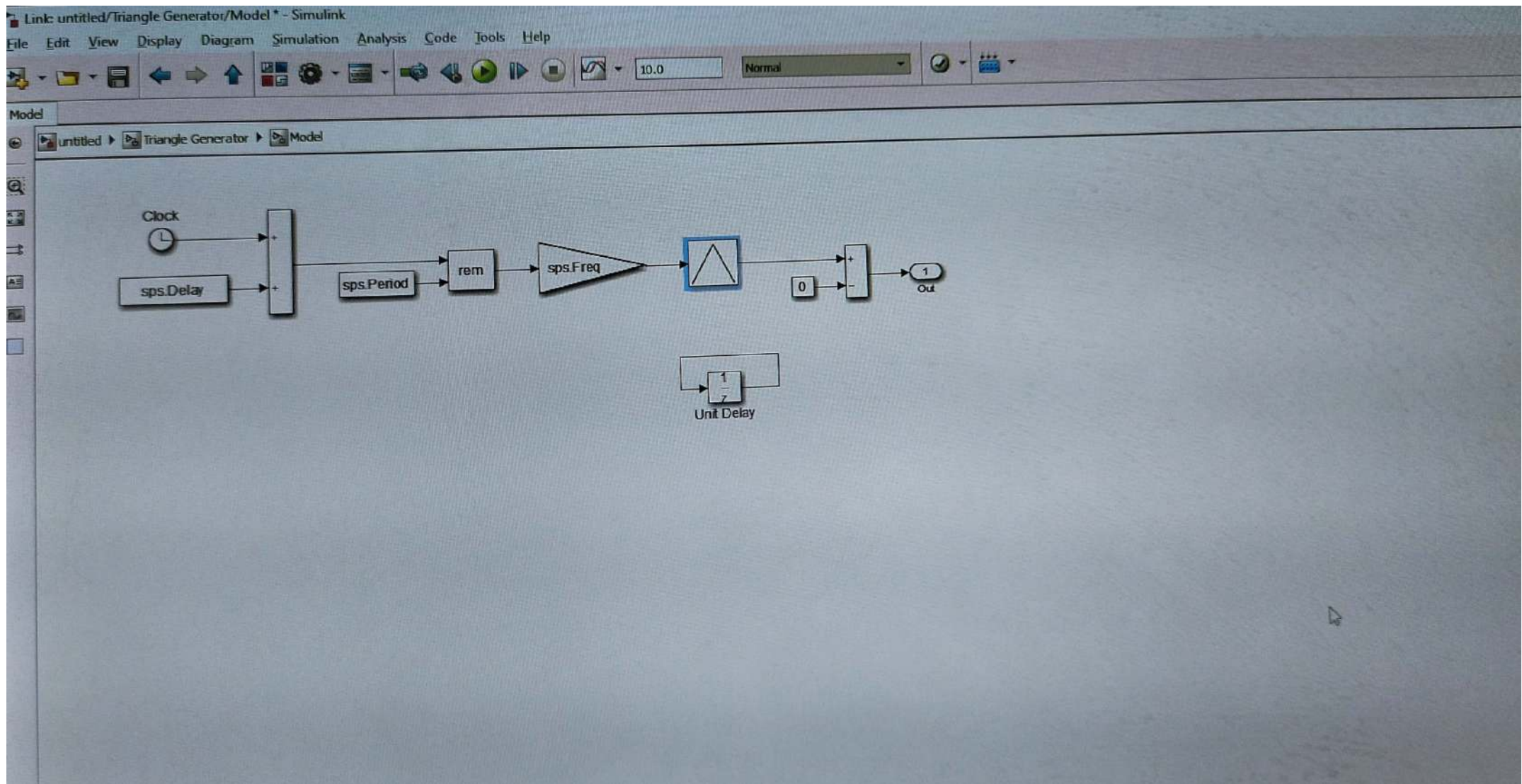


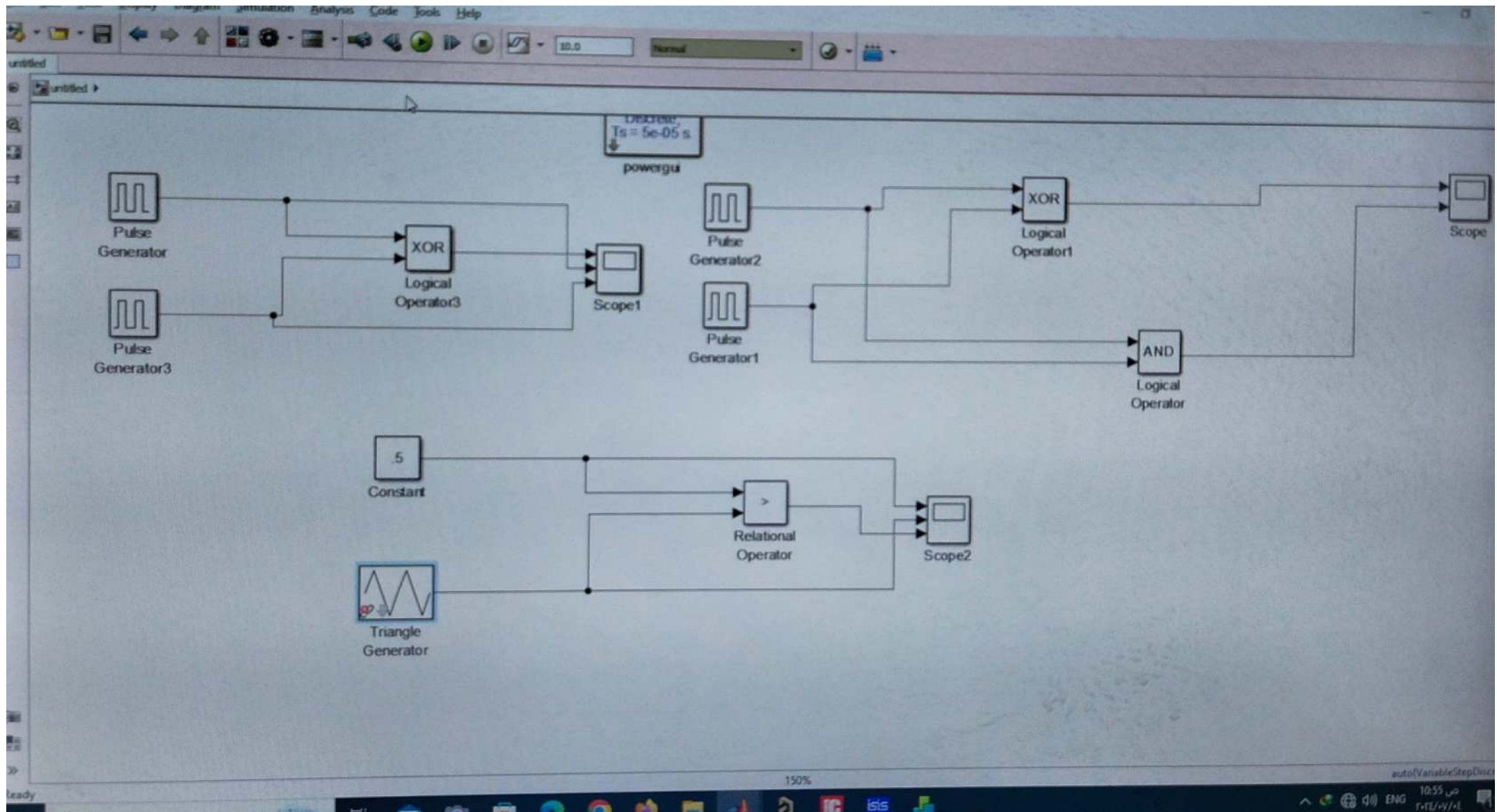


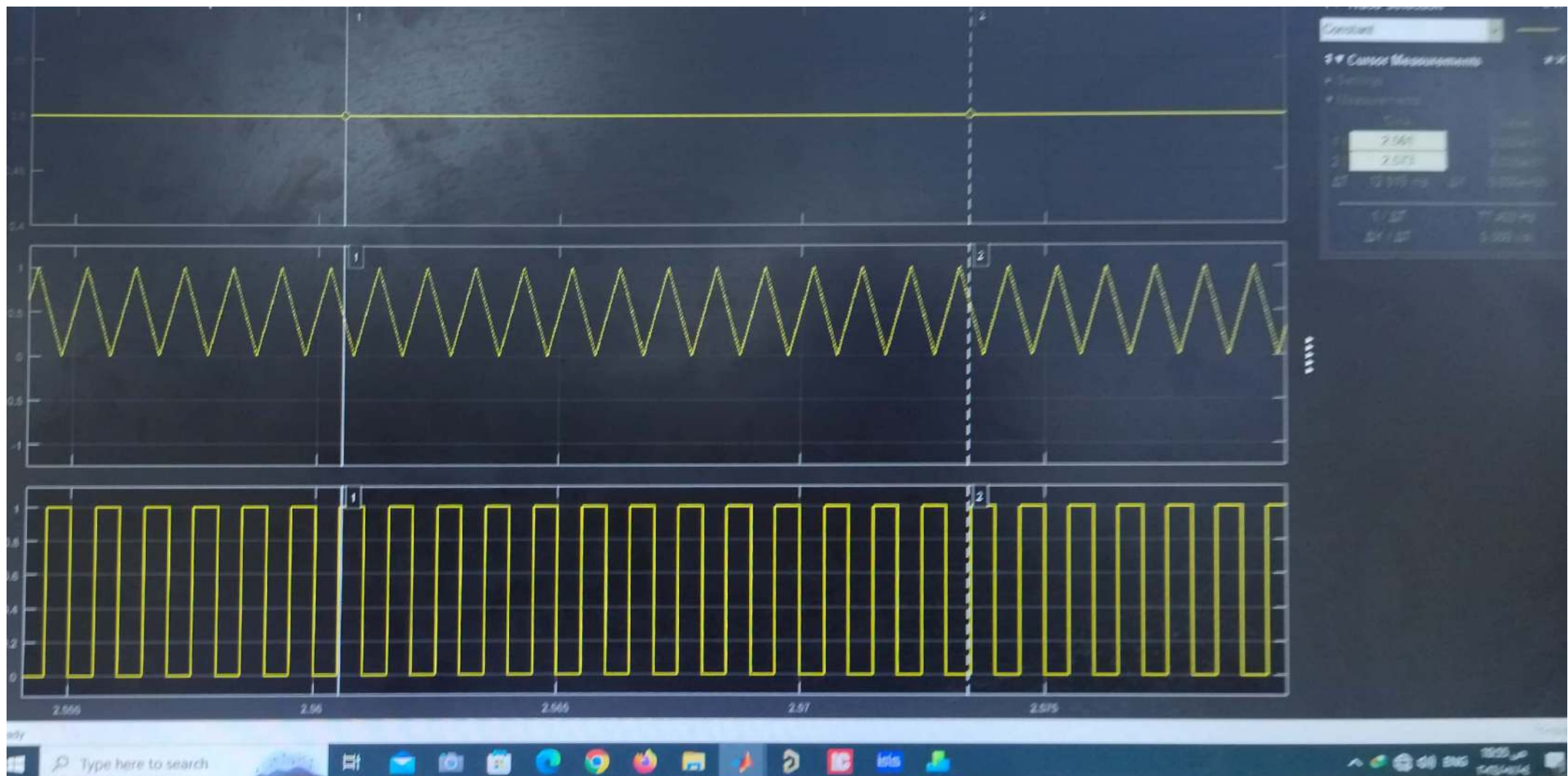


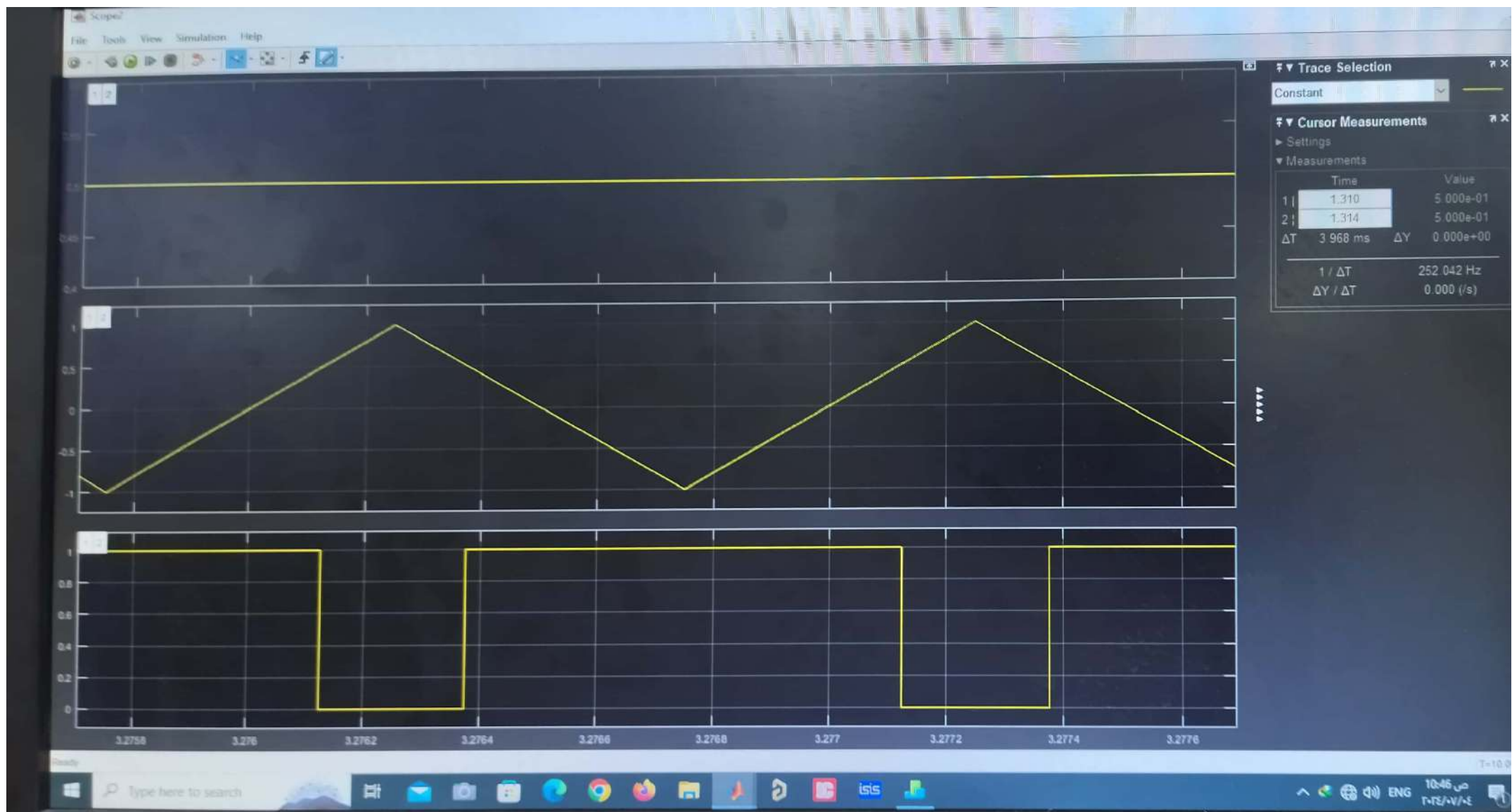


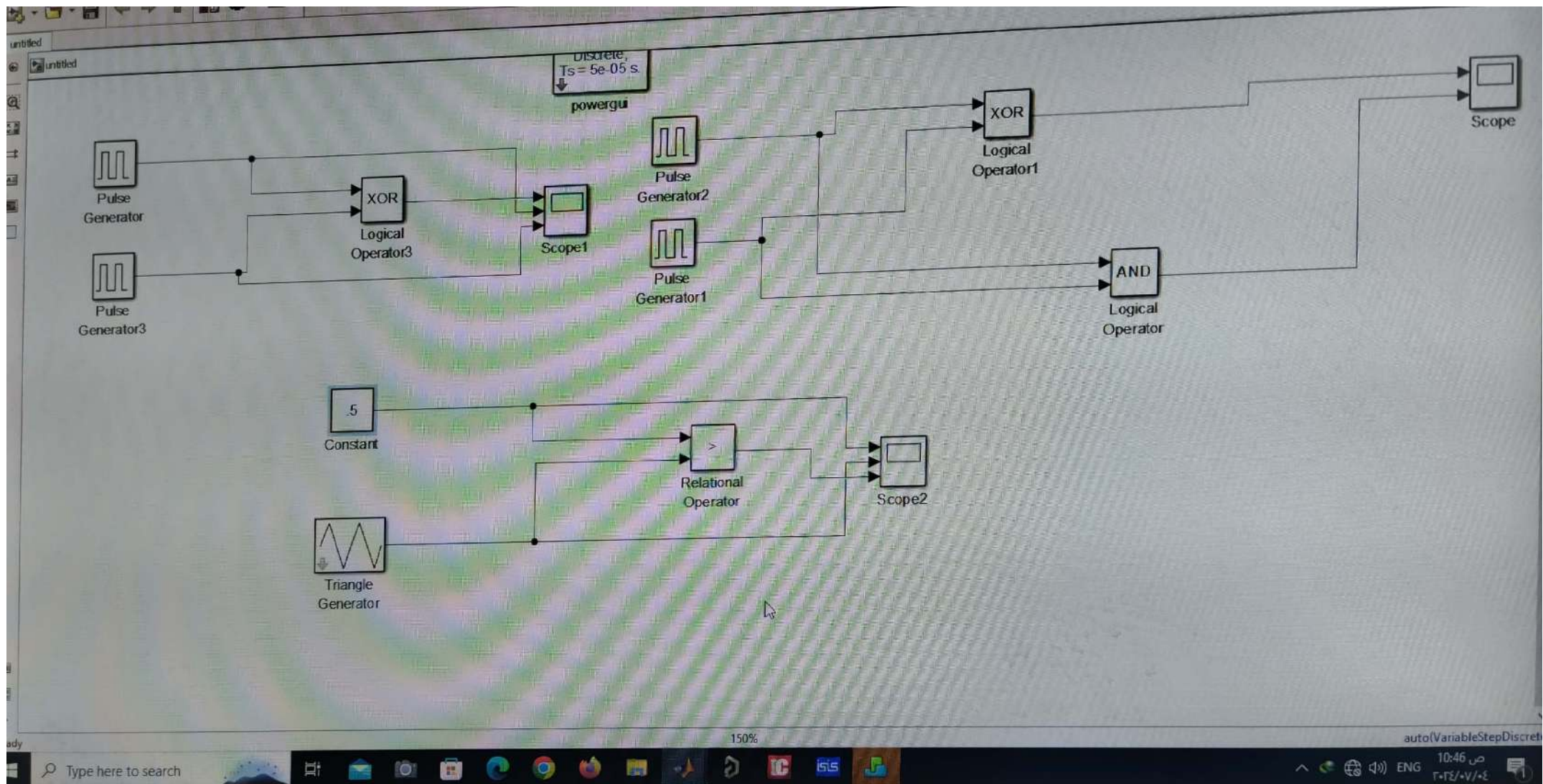


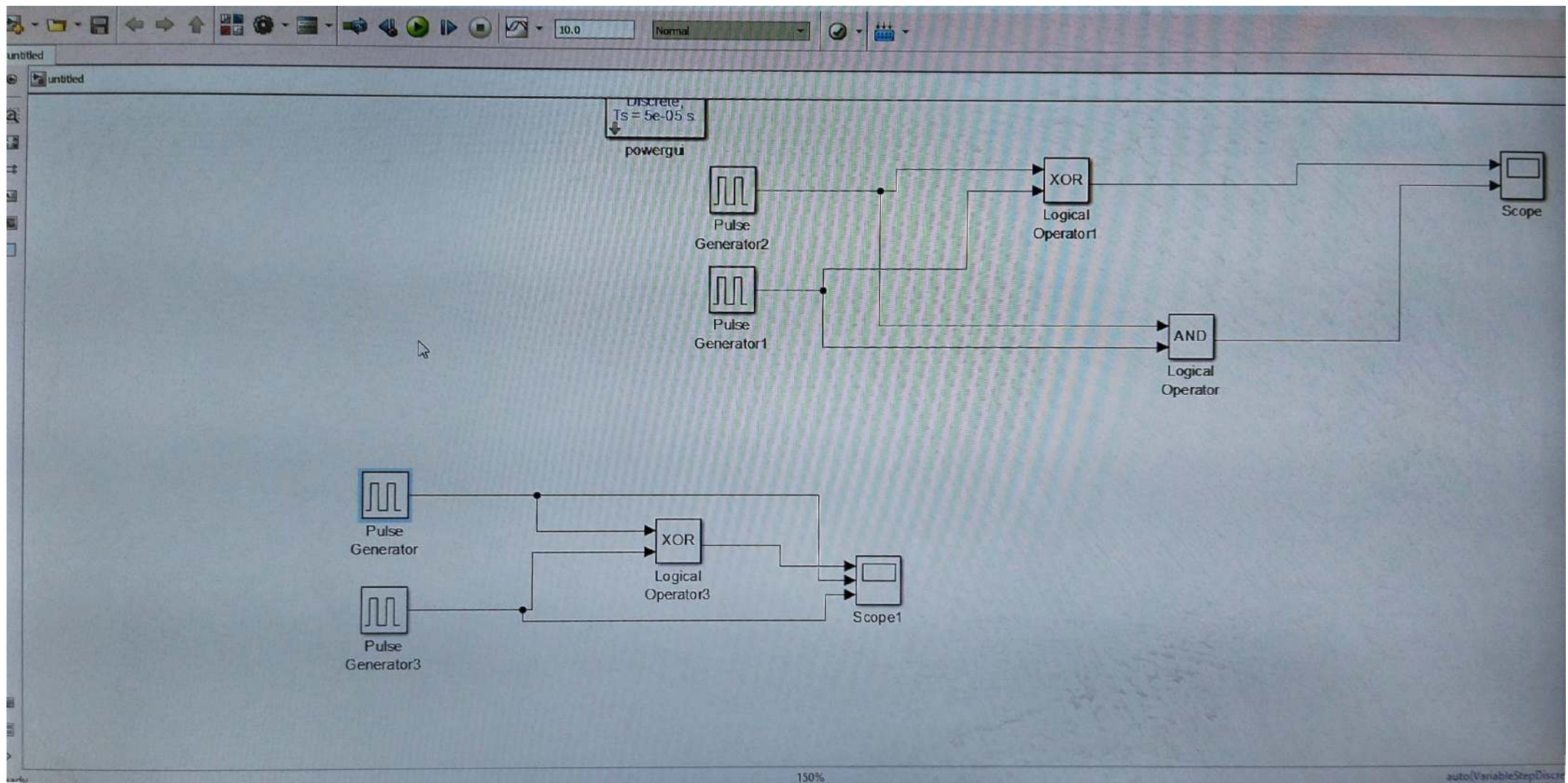


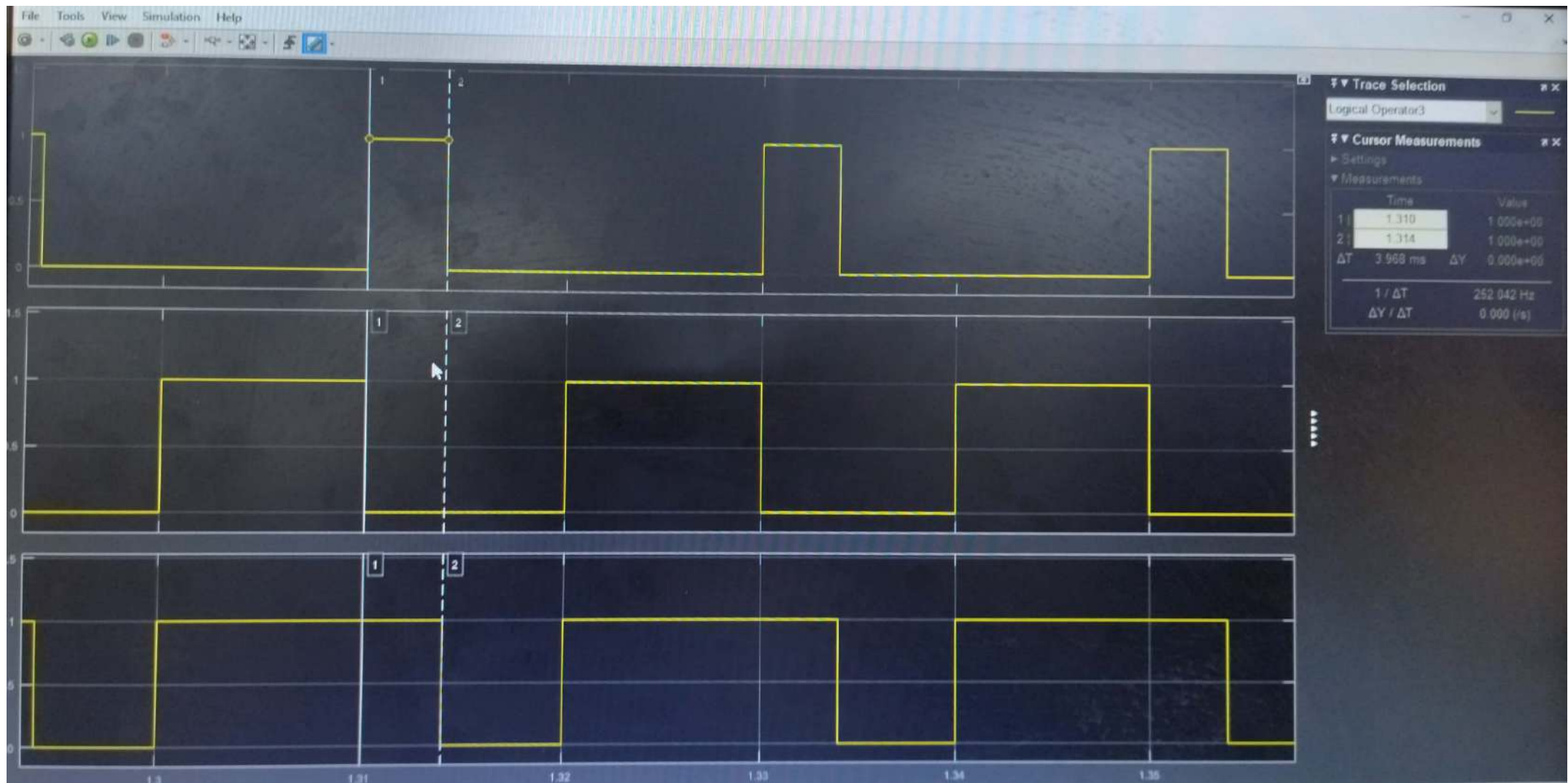


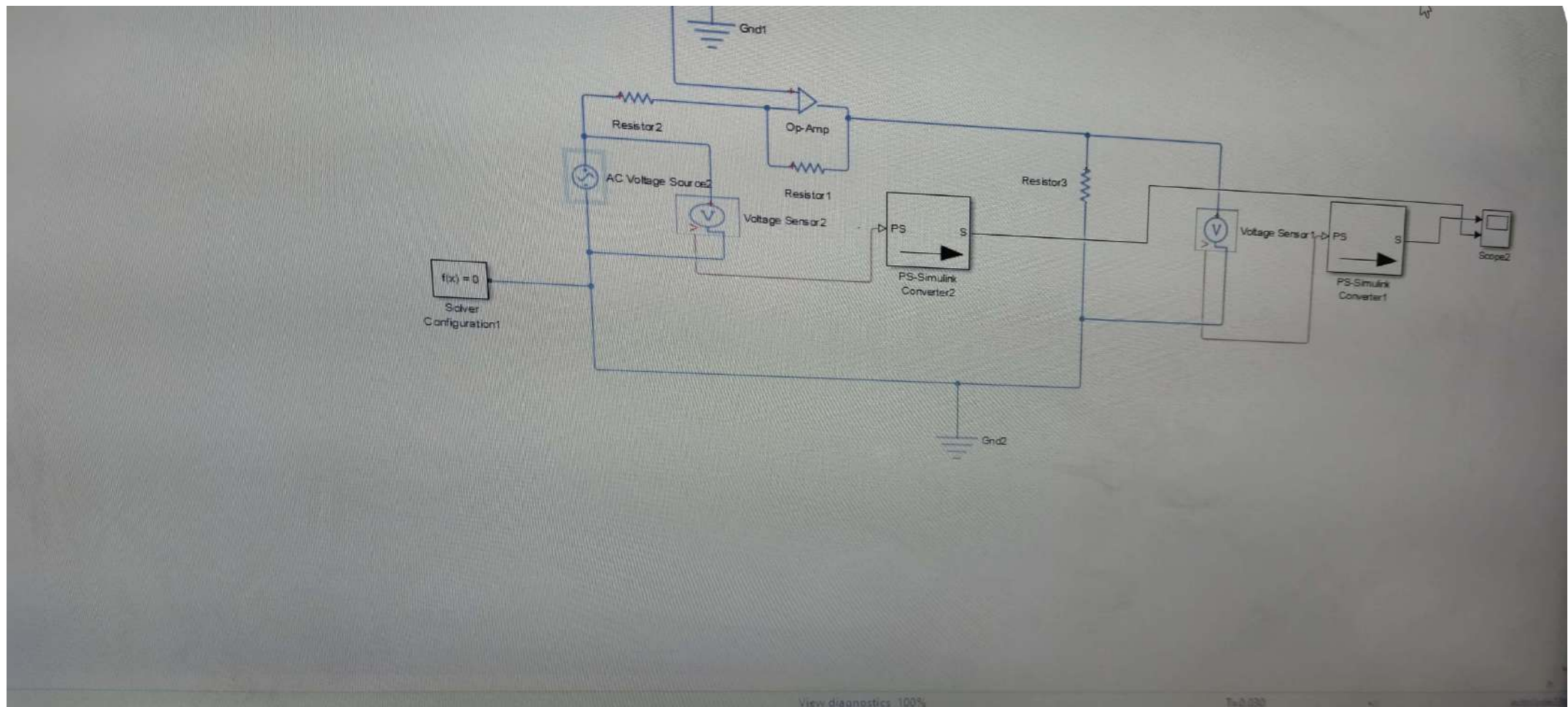




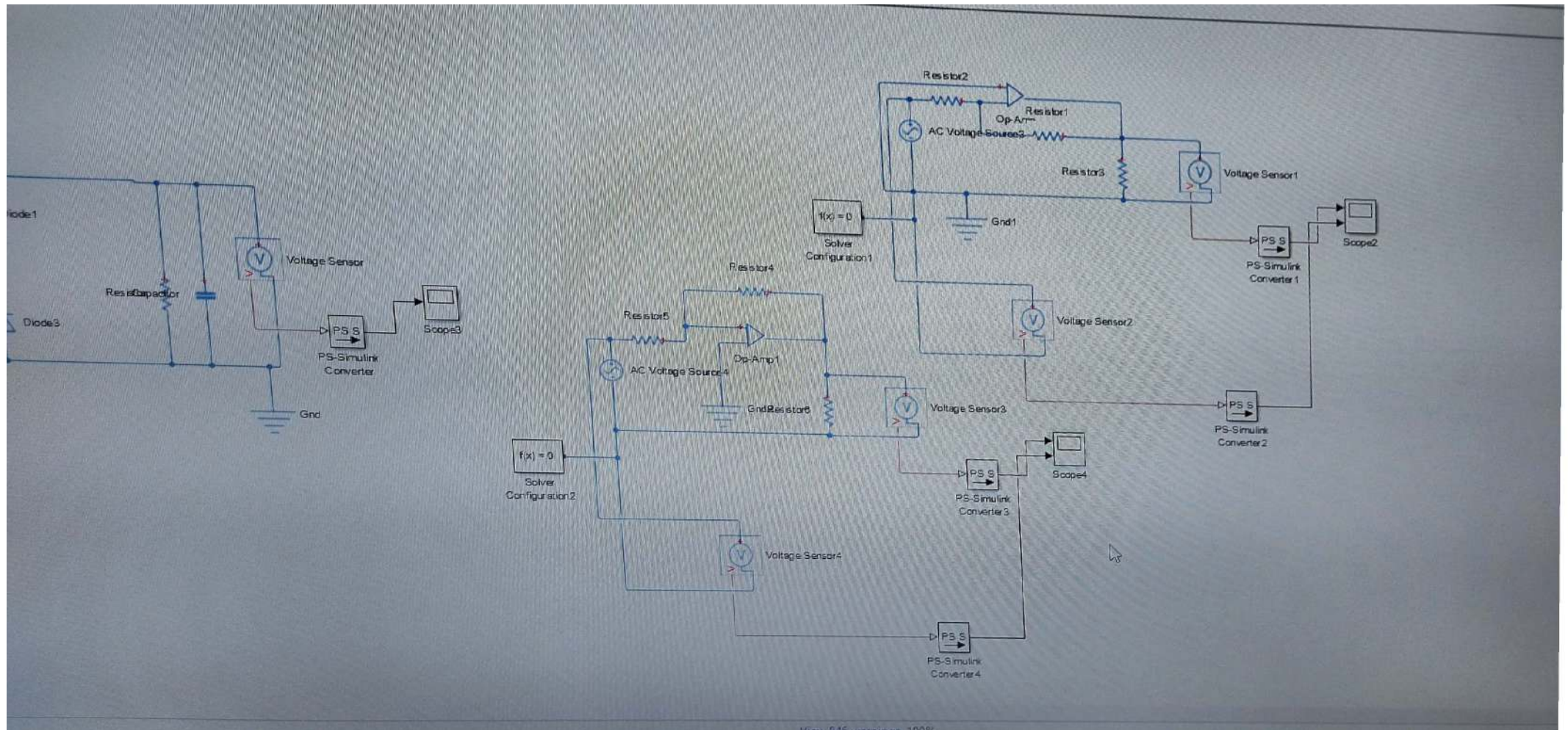


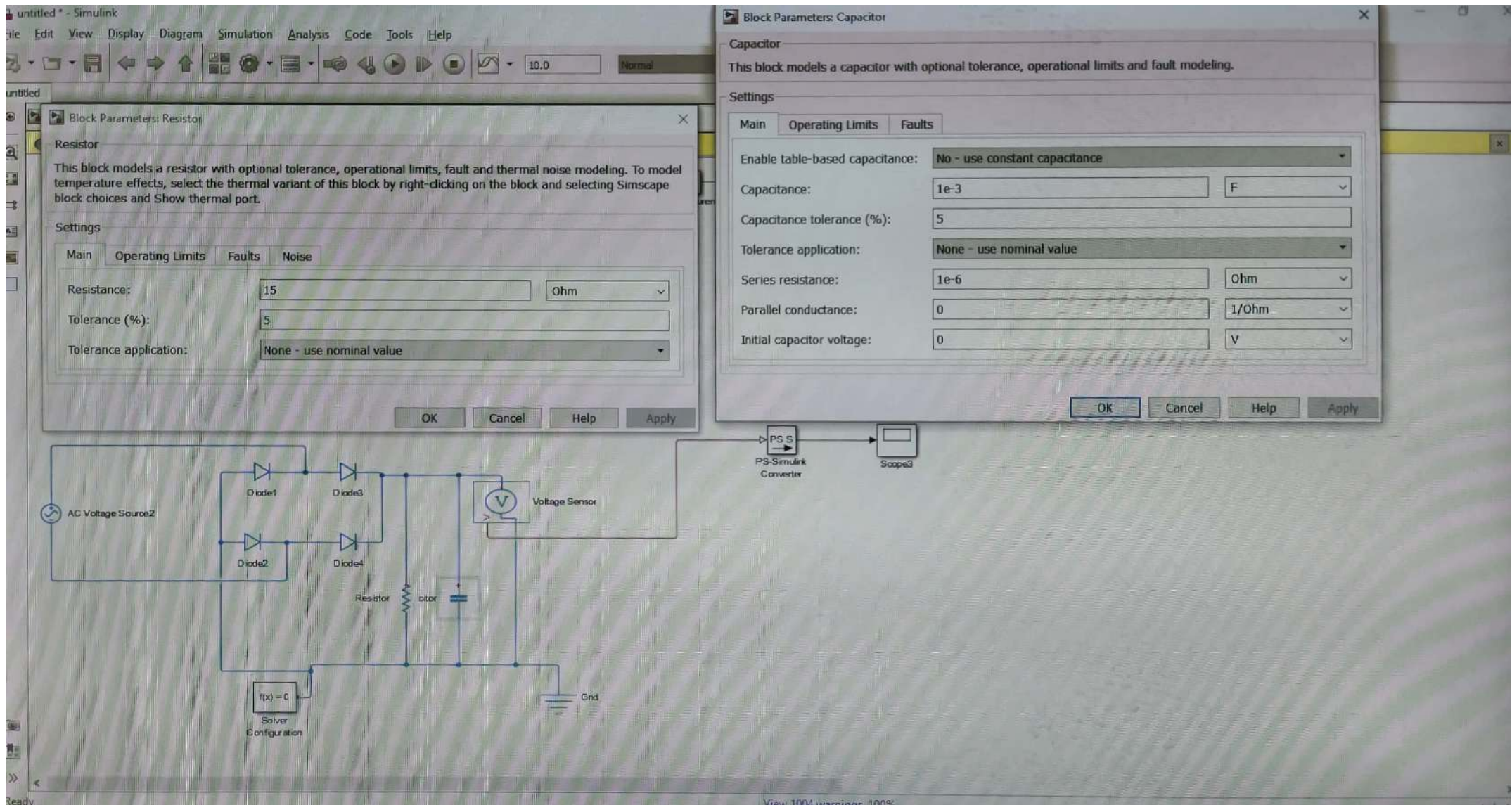






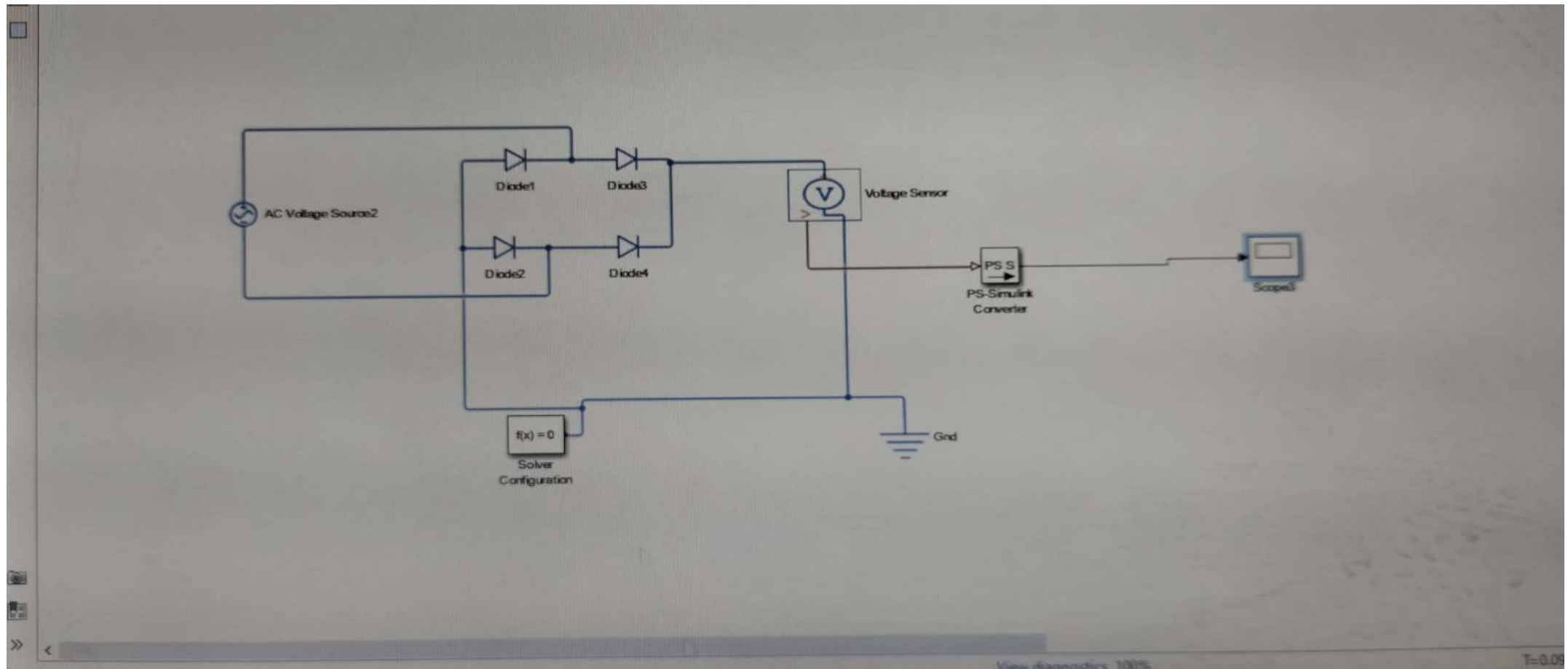


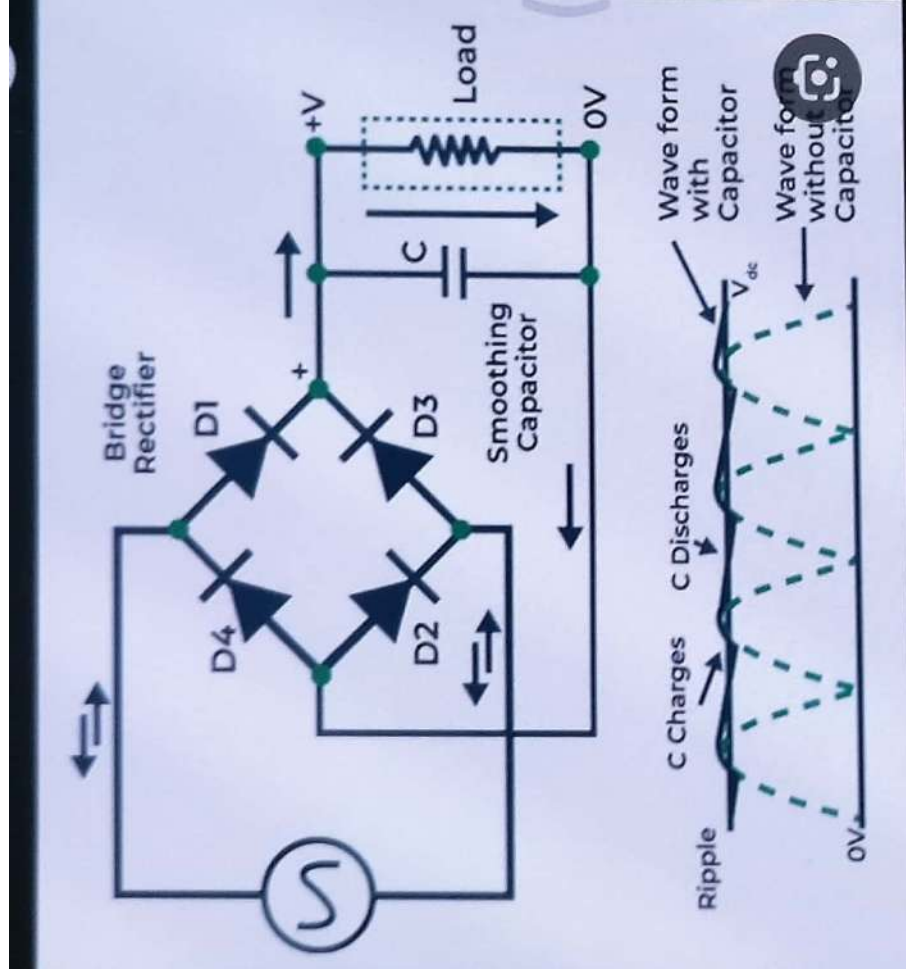












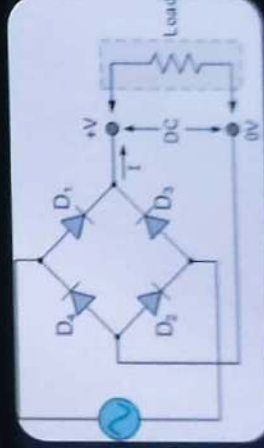
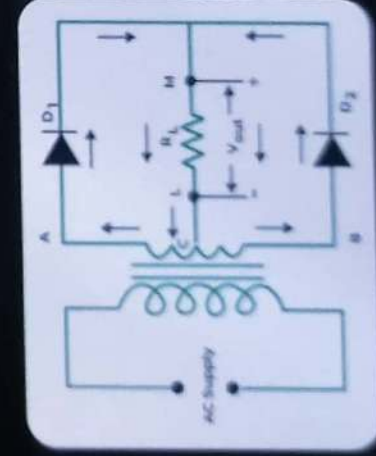
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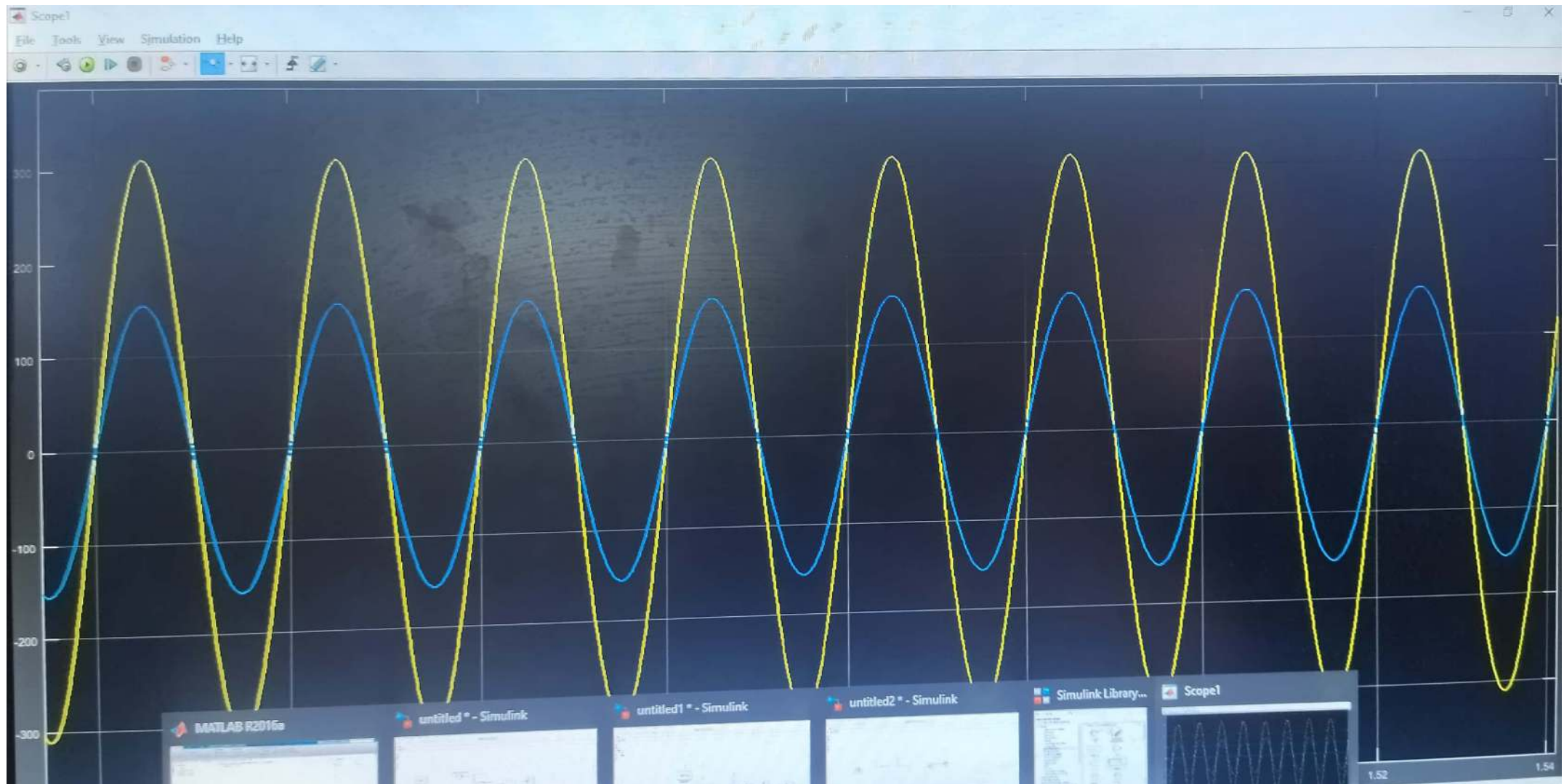


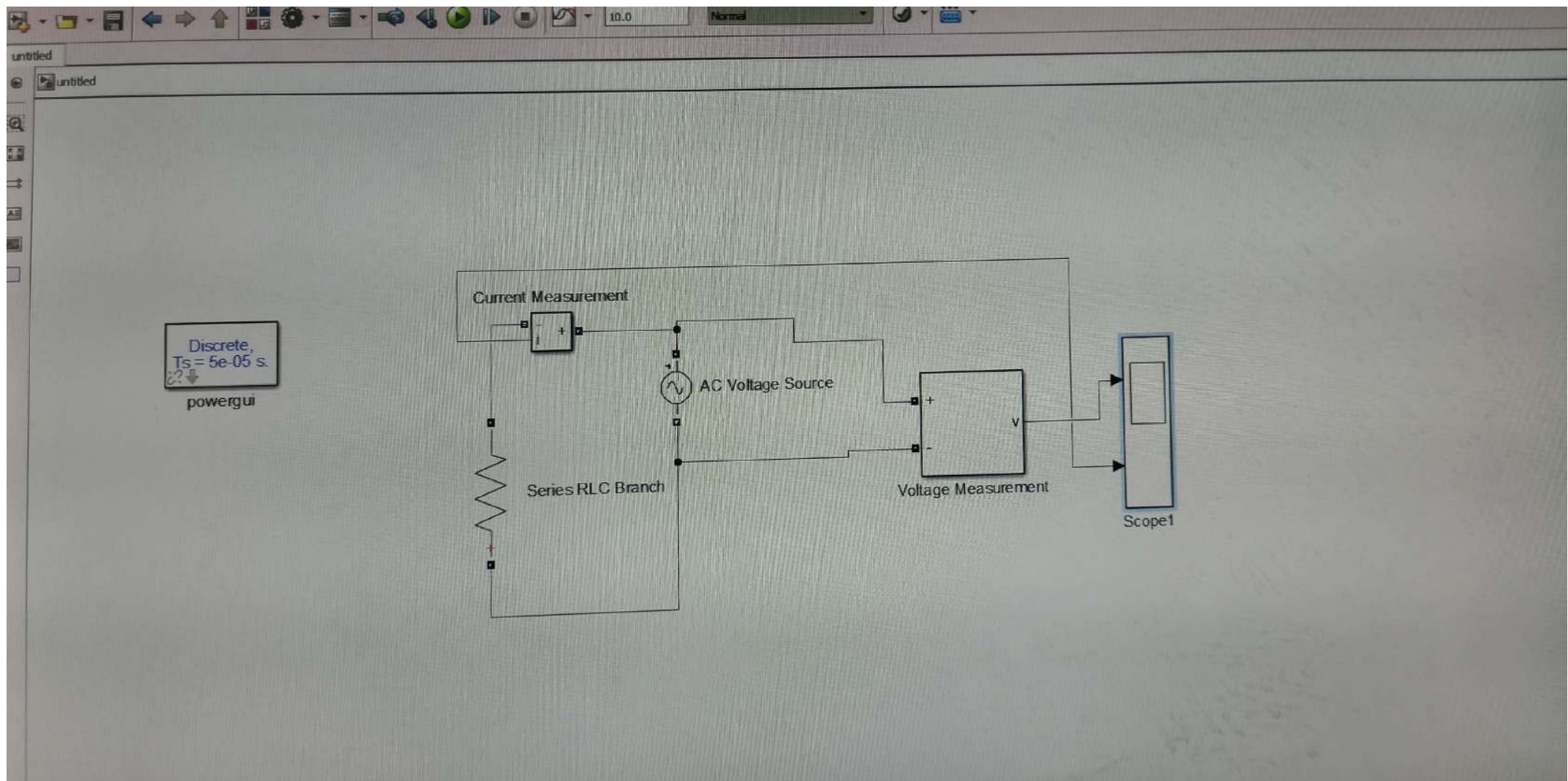
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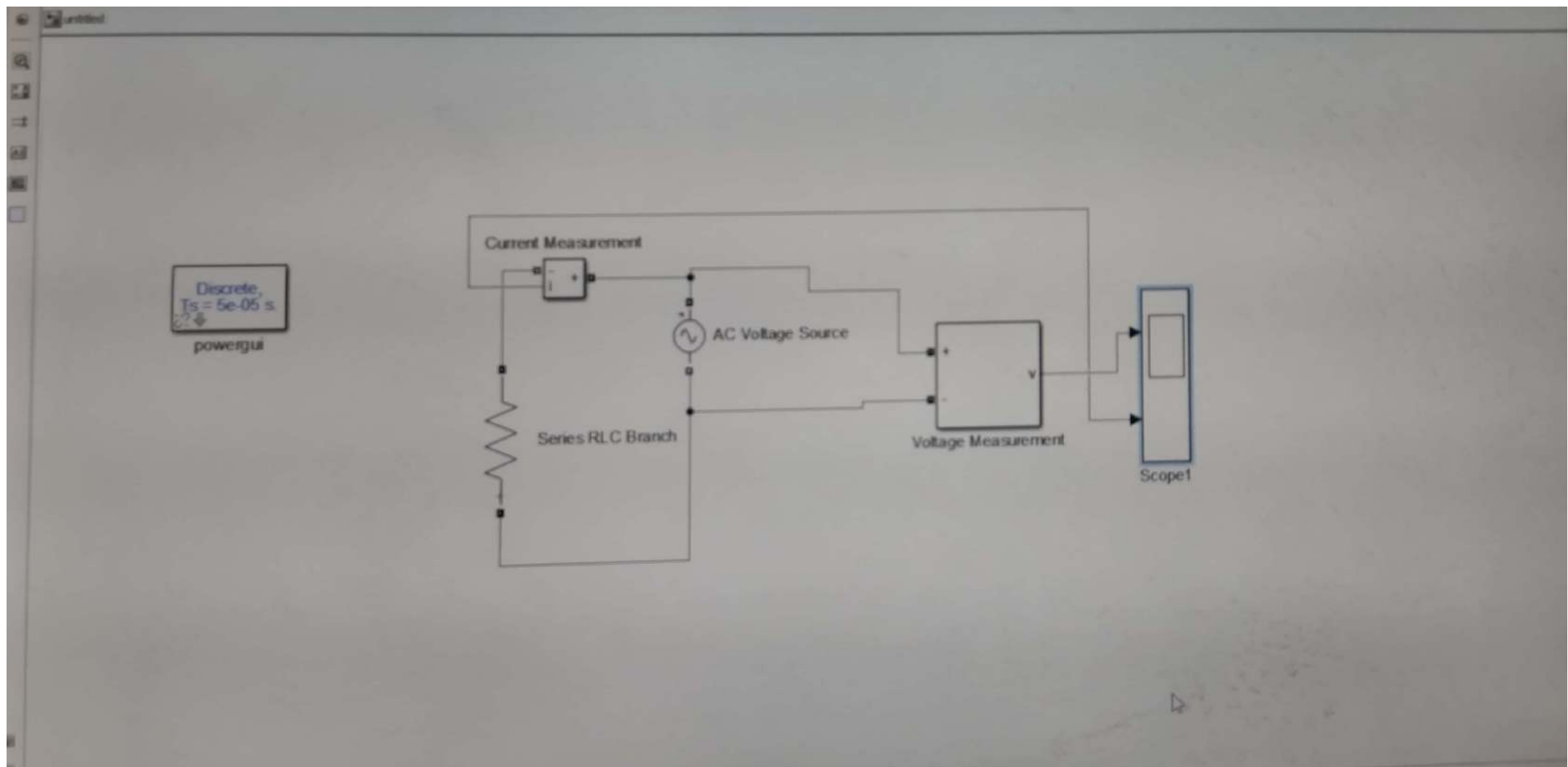
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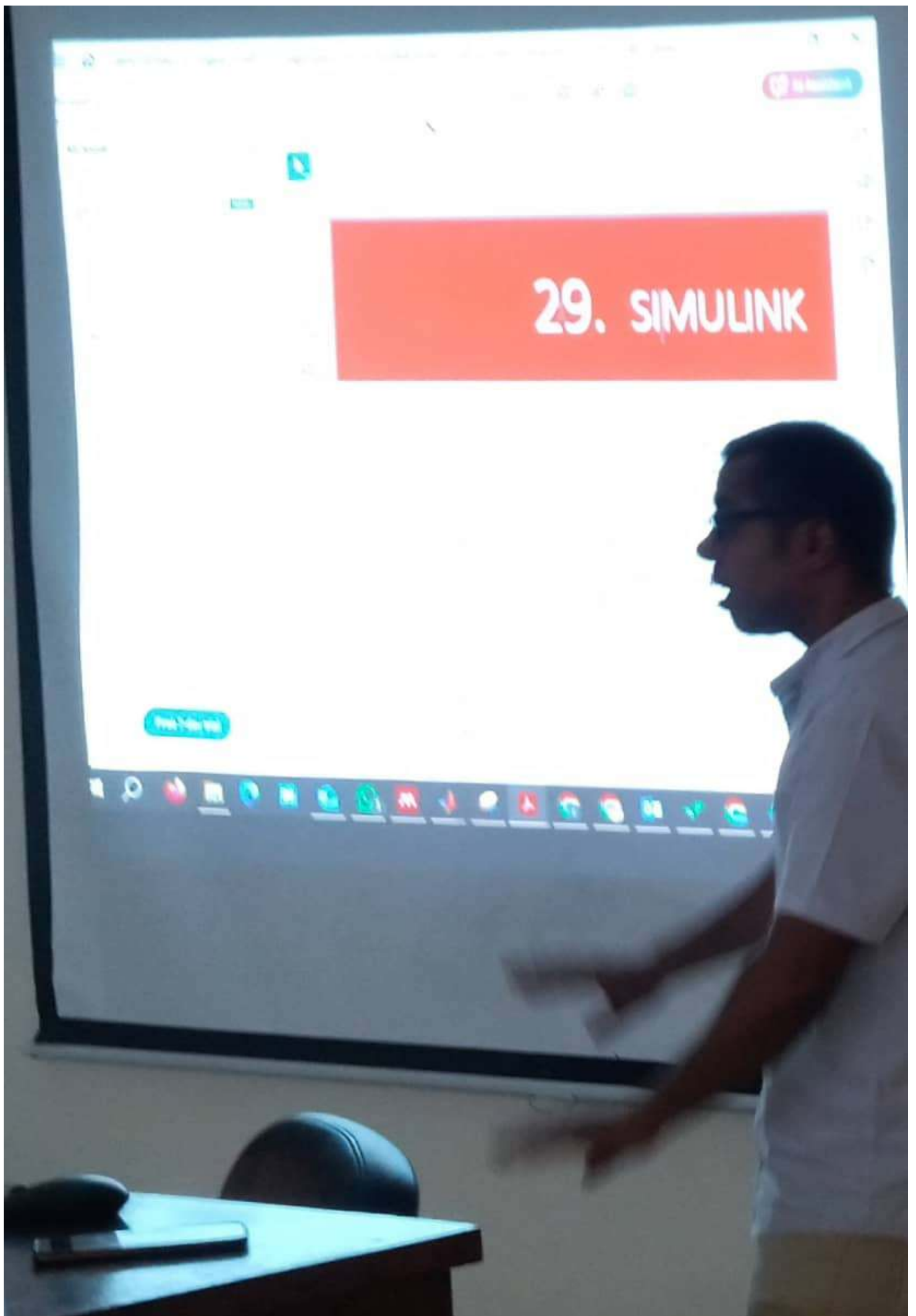
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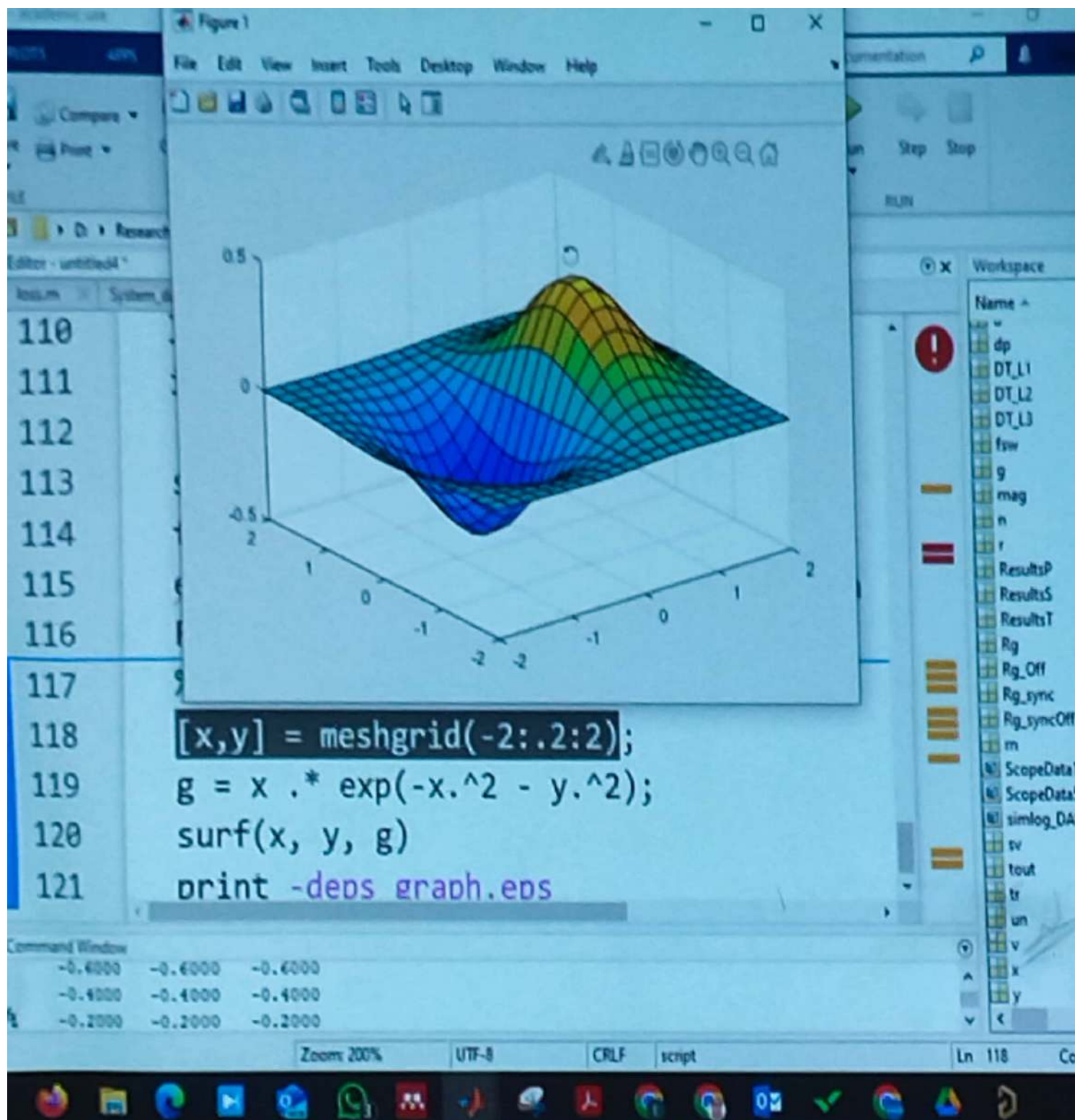


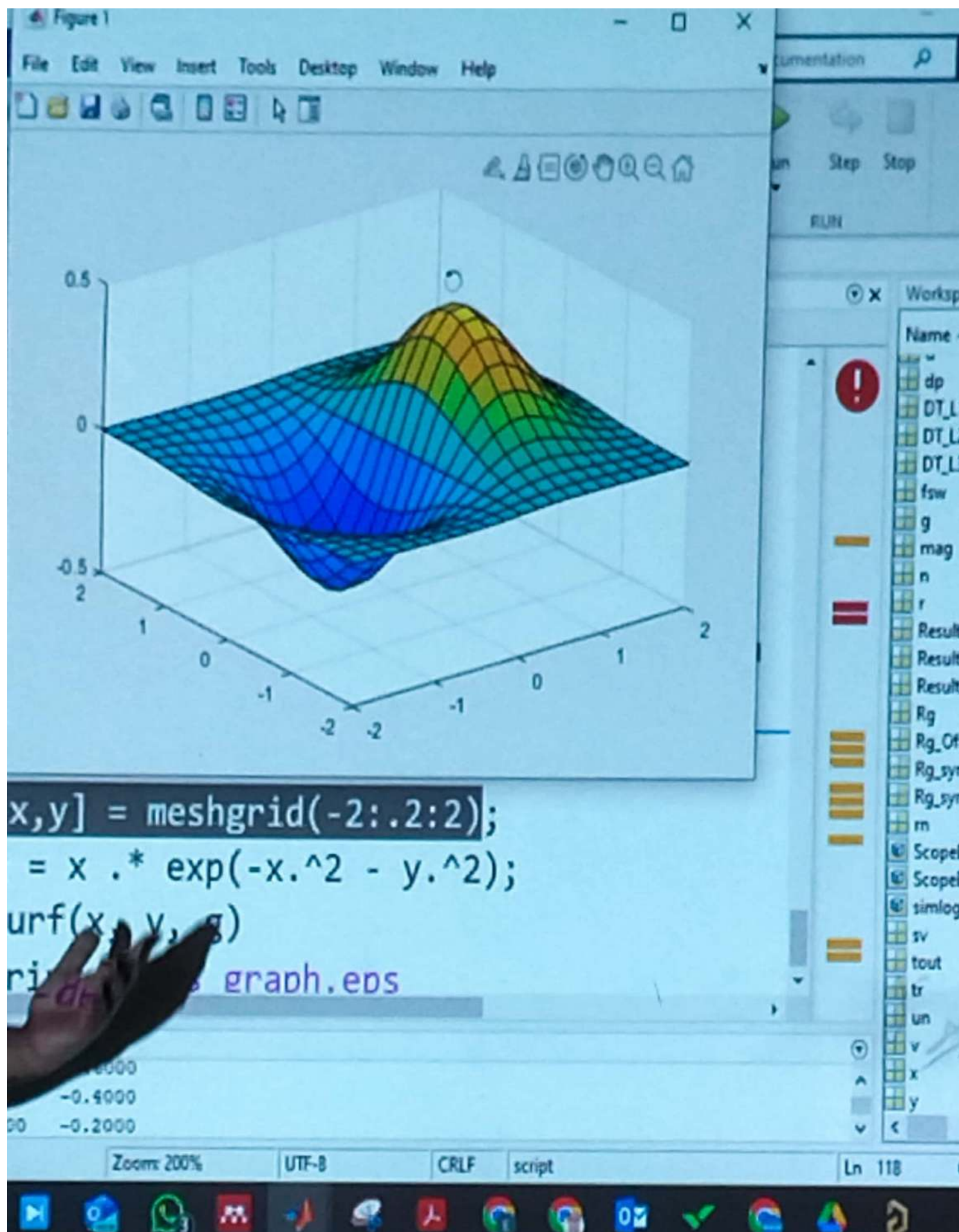












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Editor - untitled4*

```
108 laplace(t^2)
109 laplace(t^9)
110 laplace(exp(-b*t))
111 ilaplace(1/s^7)
112
113 syms x
114 f = exp(-2*x^2); %our fu
115 ezplot(f,[-2,2]) % plot
116 FT = fourier(f) % Fourie
117
```

Command Window

Zoom: 250% UTF-8 CRLF script Ln 116 Col 17

2:15 PM 7/2/2024

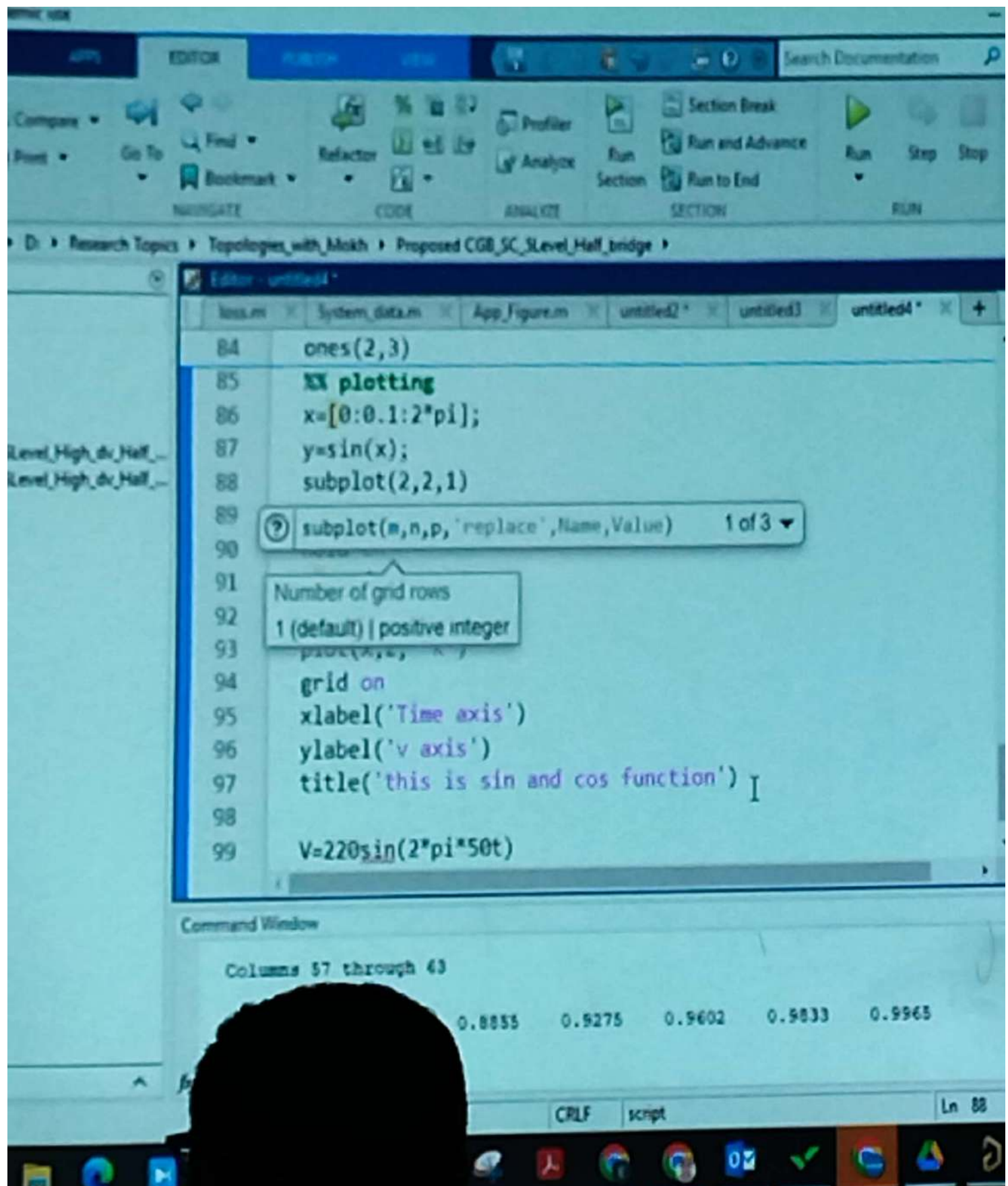
```
84 ones(2,3)
85 %% plotting
86 x=[0:0.1:2*pi];
87 y=sin(x);
88 subplot(2,2,1)
89 plot(x,y, 'b')
90 hold on
91 z=cos(x)
92 subplot(2,2,2)
93 plot(x,z, 'k')
94 grid on
95 xlabel('Time axis')
96 ylabel('v axis')
97 title('this is sin and cos function')
98
99 V=220sin(2*pi*50t)
```

Command Window

Columns 57 through 63

0.8855	0.9275	0.9602	0.9833	0.9965
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CRLF script Ln 88



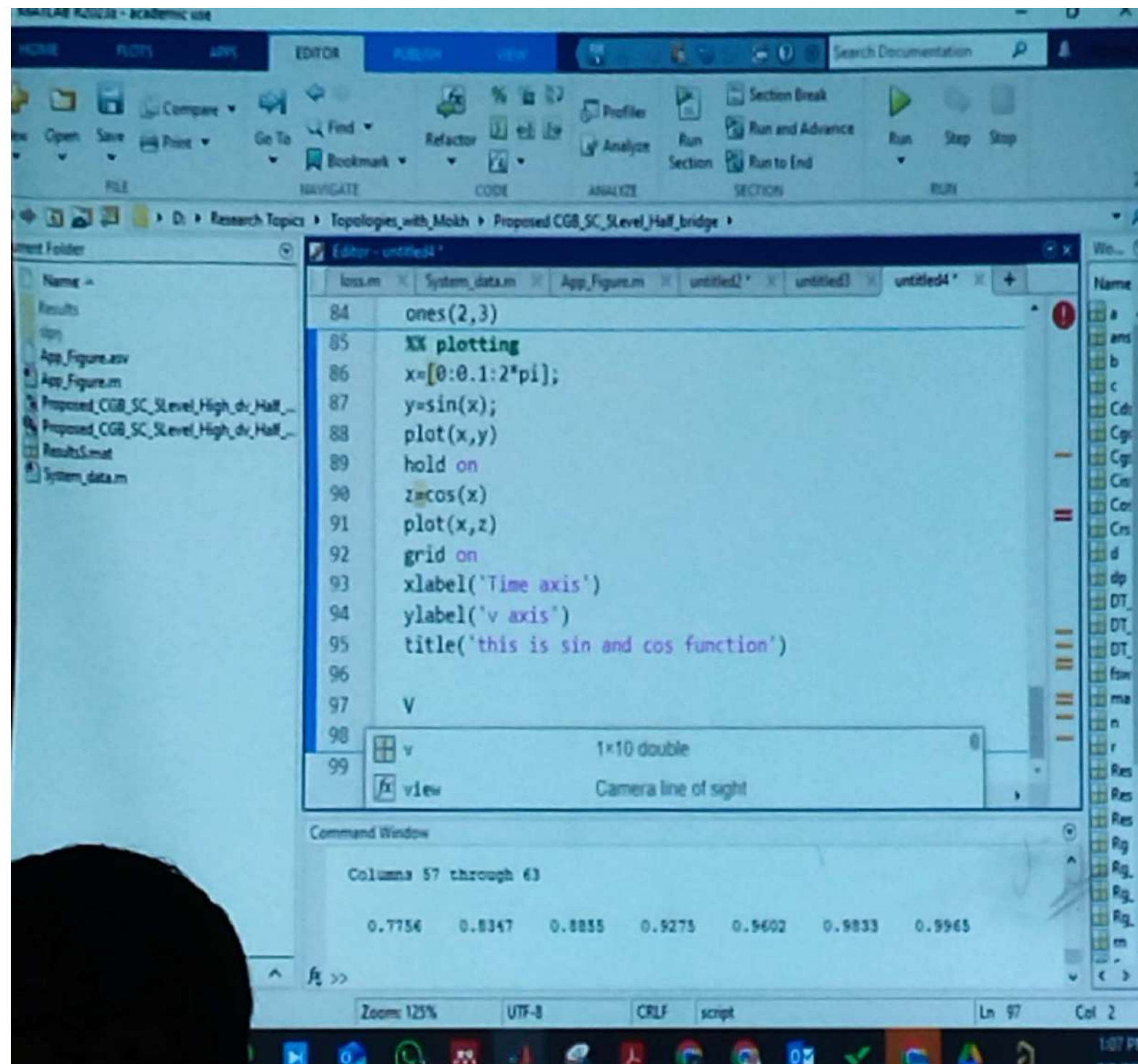
```
84 ones(2,3)
85 %% plotting
86 x=[0:0.1:2*pi];
87 y=sin(x);
88 subplot(1,2,1)
89 plot(x,y, 'b')
90 hold on
91 z=cos(x)
92 subplot(1,2,2)
93 plot(x,z, 'k')
94 grid on
95 xlabel('Time axis')
96 ylabel('v axis')
97 title('this is sin and cos function')
98
99 V=220sin(2*pi*50t)
```

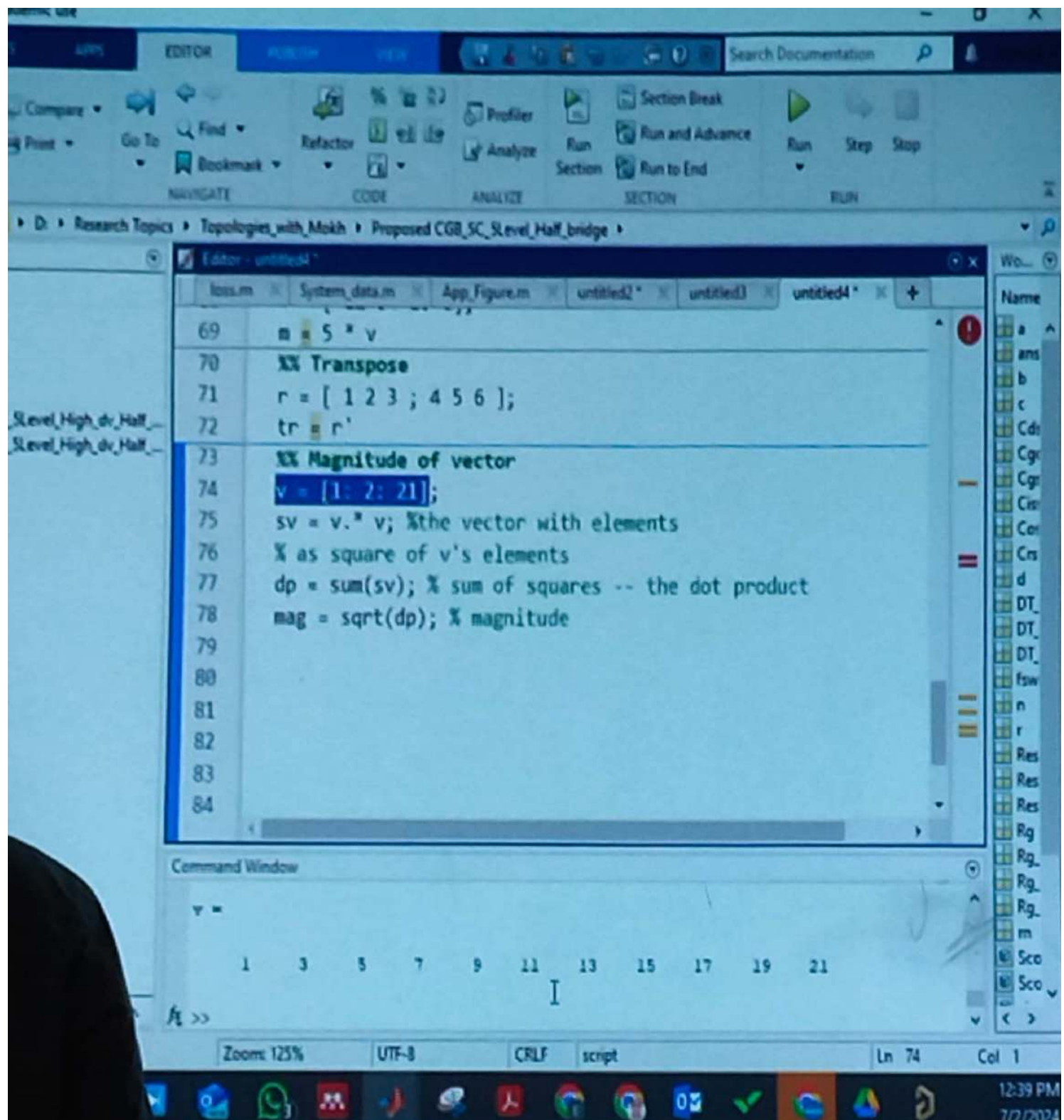
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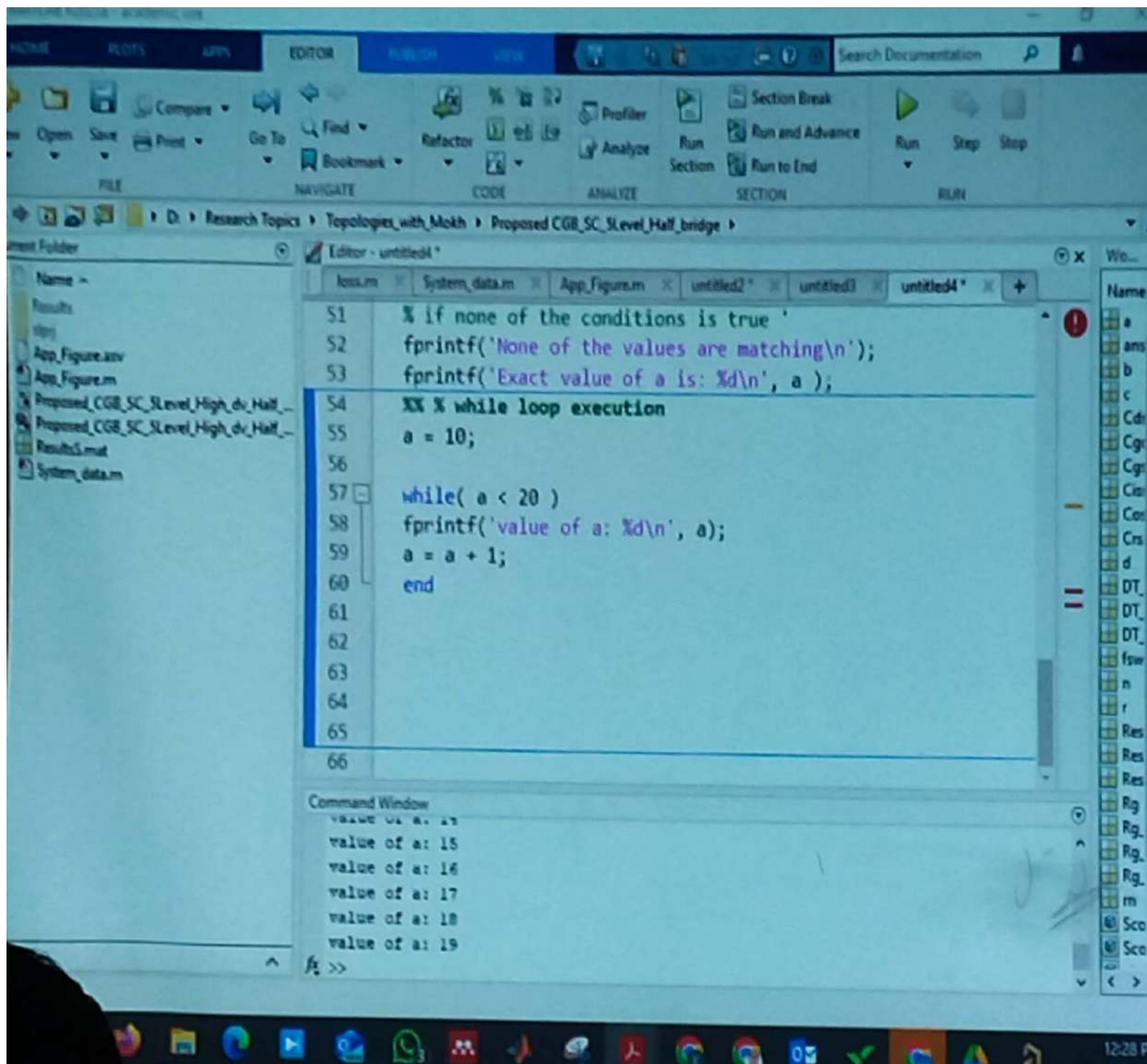
Columns 57 through 63

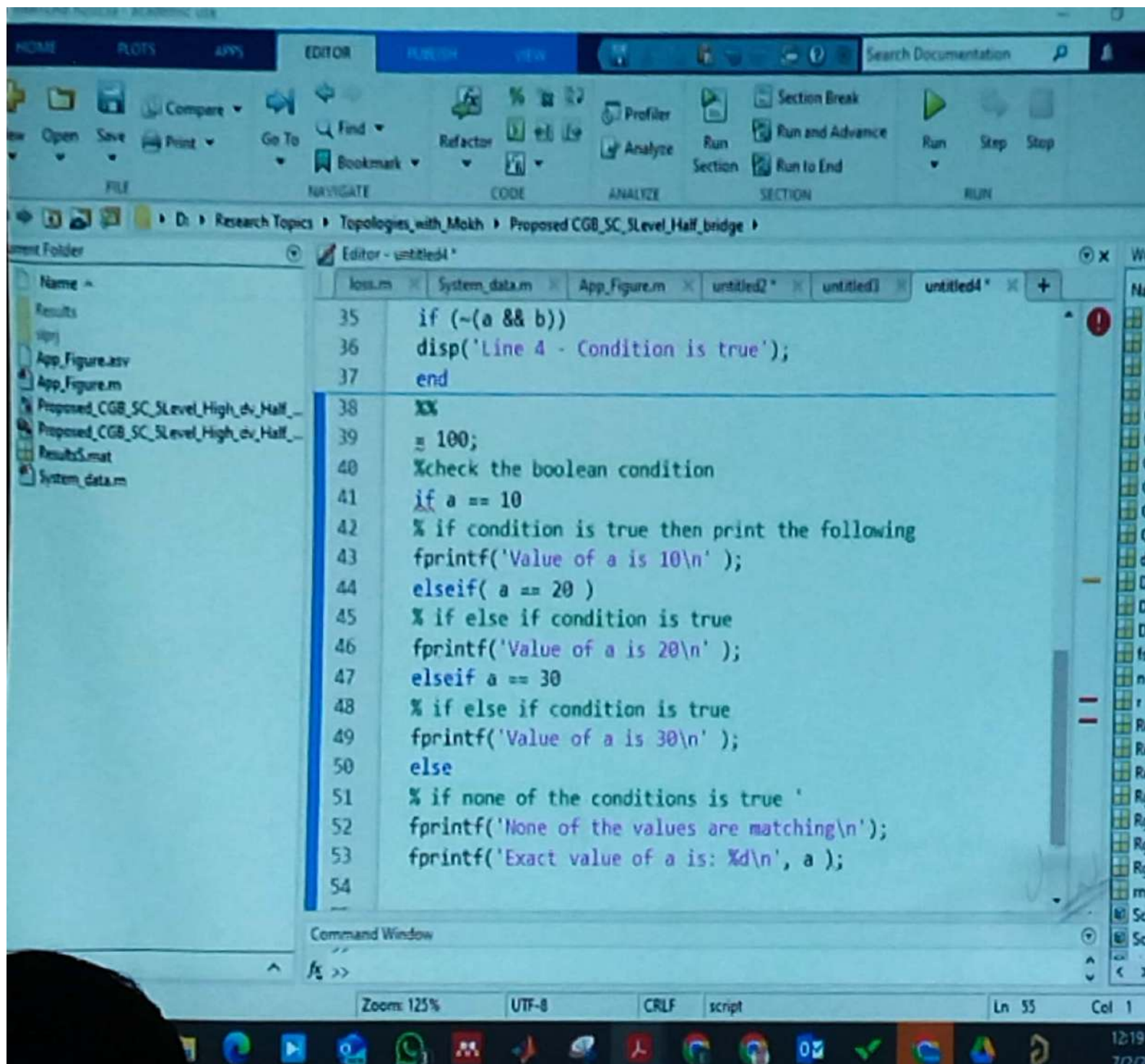
0.9855	0.9275	0.9602	0.9833	0.9945
--------	--------	--------	--------	--------

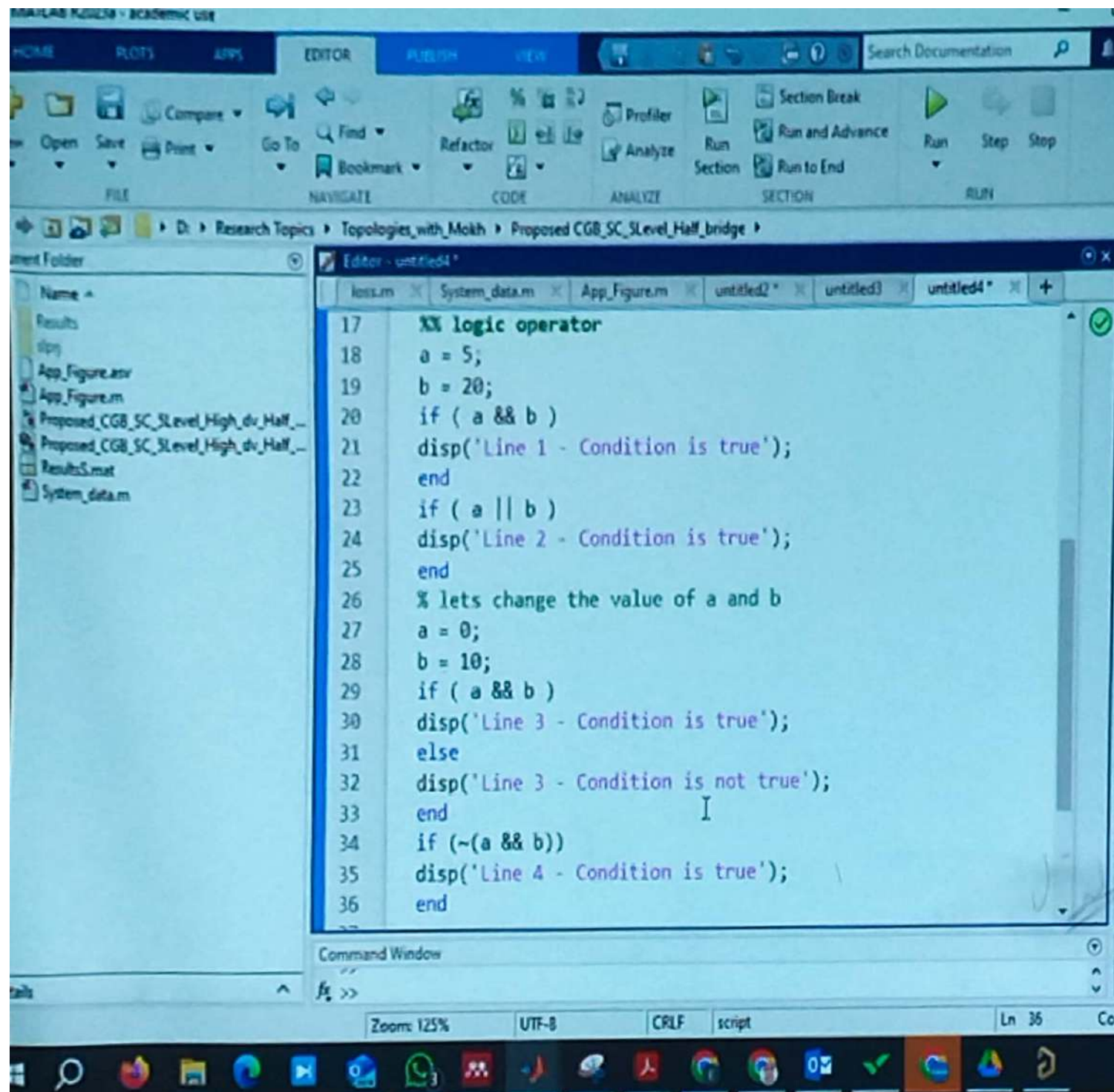
CRUF script Ln

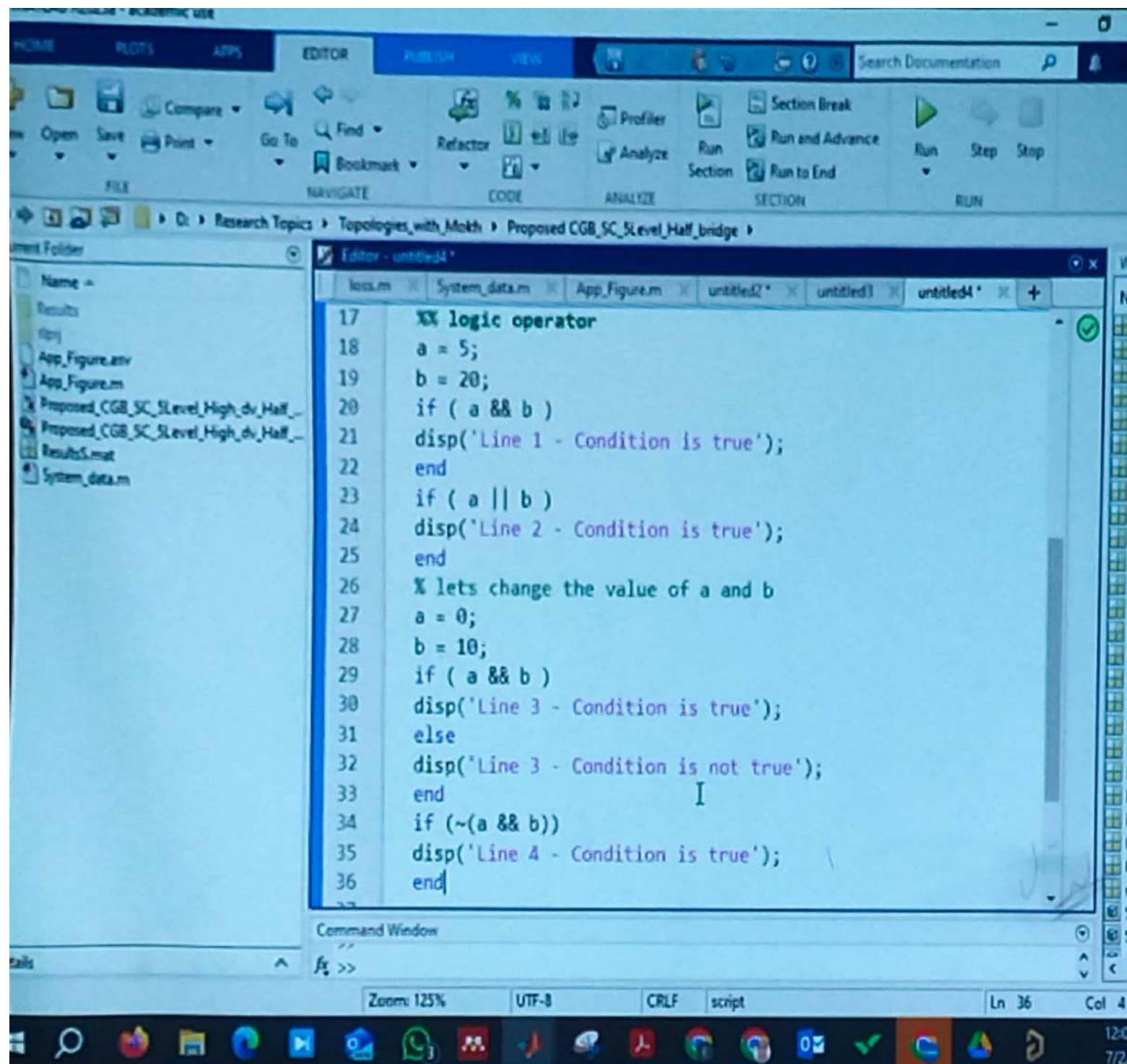












```
1
2-   x=[   :.01:   ];
3-   for k=1:length(x)
4-       if x(k)
5-           y(k)= ;
6-       elseif x(k)
7-           y(k)=;
8-       else
9-           y(k)=;
10-      end
11-  end
12-  plot(x,y)
13-  xlabel('x-axis')
14-  ylabel('ahmed')
15-  title('Drawing f(x)')
16
```

حل لمعادلات المبرية الخطية

* يكون معطى عدد من المعادلات حيث عدد المجهول مع المجهول

$$3x + 2y - 10z = 12$$

$$15x - 6y + 3z = -20$$

$$x + y + 10z = 5$$

* يمكن التعبير عن الثلاث معادلات في صورة مصفوفة

$$A = \begin{bmatrix} 3 & 2 & -10 \\ 15 & -6 & 3 \\ 1 & 1 & 10 \end{bmatrix} \quad B = \begin{bmatrix} 12 \\ -20 \\ 5 \end{bmatrix}$$

* وباستخدام طريقة كراسر يمكن الحصول على النتائج

$$A \cdot X = B$$

$$X = A^{-1} B$$

$$X = \text{inv}(A) B$$

وسكونه أواخر مكانه كالأثر