

Editor - C:\Users\Emmanuel Nwaohiri\AppData\Local\Microsoft\Windows\NetCache\IE\I9LWRHEV\solve1.m

emeka_12.m x mexish.m x emeka_test.m x emeka_test2.m x solve1.m x +

```
1 - clearvars
2 - clc
3 - close all
4 - t = 0:0.5:7.5;
5 - y = 0.0769*exp(-t/40) - (2000*1601^(1/2)*cos(t + atan(1/40)))/1601 + 2000
6 - plot(y,t)
7 - xlabel('Time (hr)')
8 - ylabel('Amount of substance (g)')
9 - grid on
10 - grid minor
```

Command Window

New to MATLAB? See resources for [Getting Started](#).

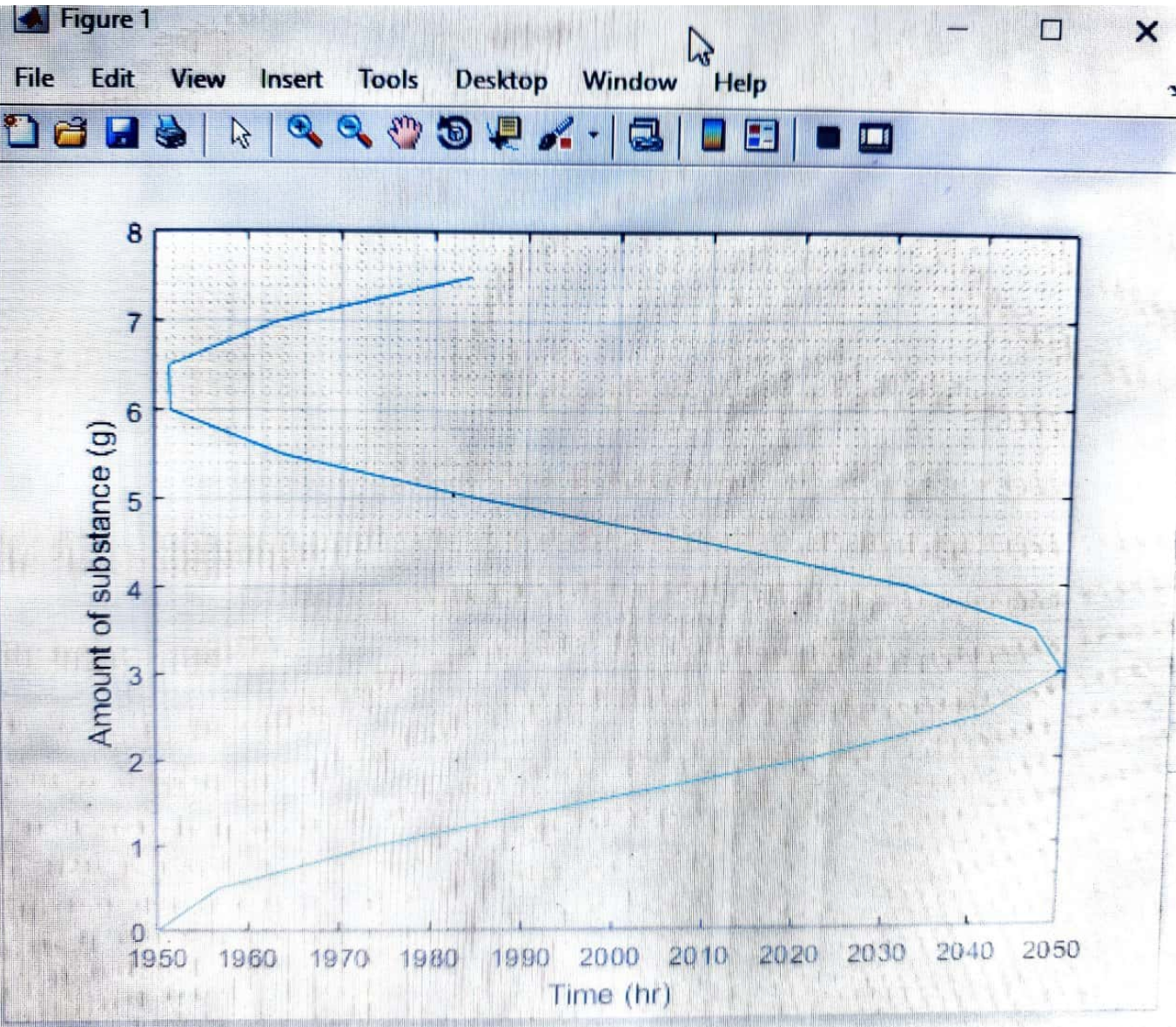
Columns 13 through 16

1.9617 1.9515 1.9632 1.9839

fx >>


```
clearva
clc
close a
t = 0:0
y = 0.0
plot(y,
xlabel(
ylabel(
grid on
grid mi

Command Window
y to MATLAB? See
Columns 13
1.9517
>>
k
```

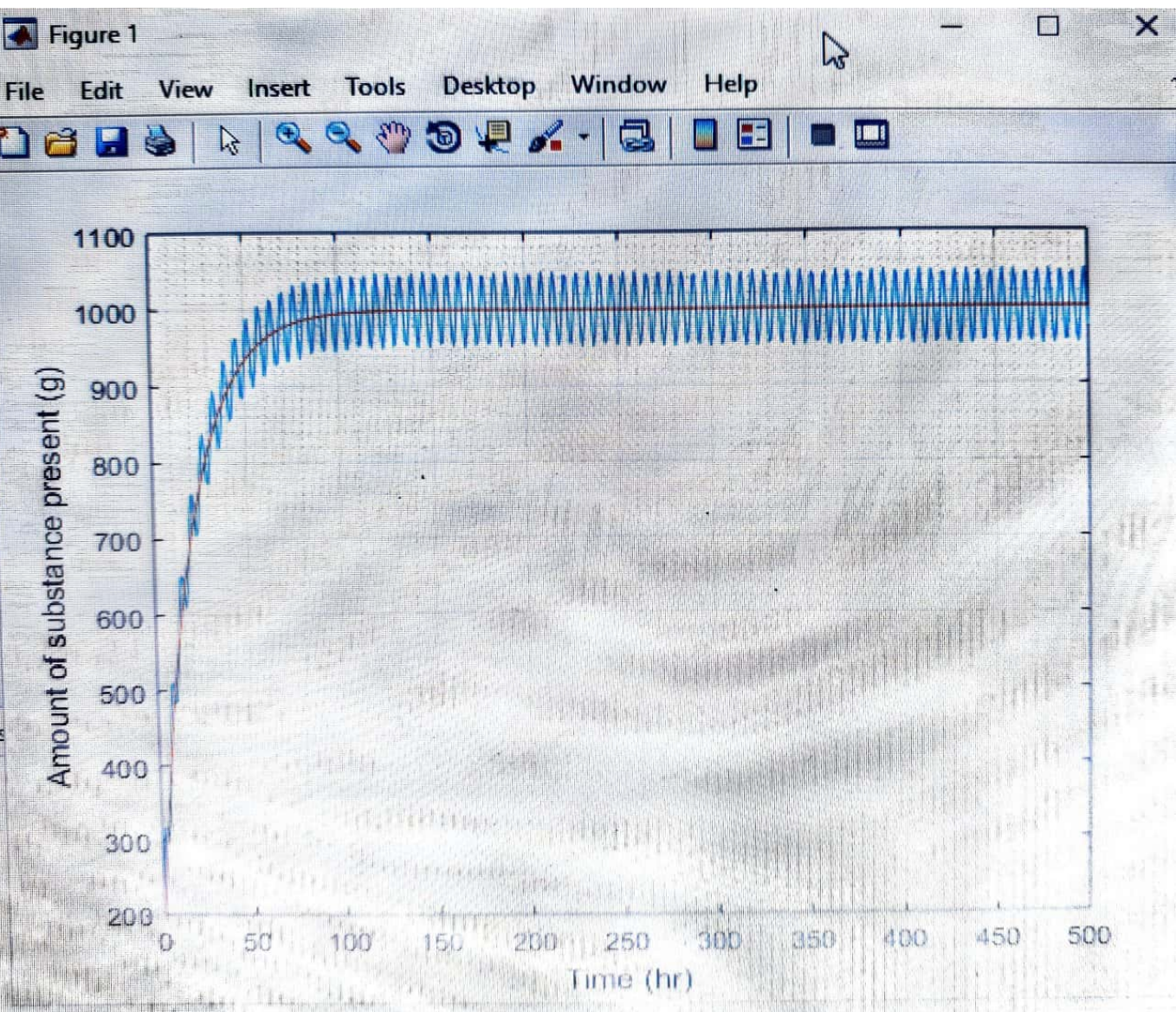


script


```
1 - clc
2 - close all
3 - clearvars
4 - t = 0:1:500;
5 - x = ((1000)+(49.88)*(sin(t))+(2.49)*(cos(t))-802.49*exp(-0.05*t));
6 - plot(t,x)
7 - xlabel('Time (hr)')
8 - ylabel('Amount of substance present (g)')
9 - hold on
10 - y = (1000-800*exp(-0.05*t));
11 - plot(t,y)
12 - xlabel('Time (hr)')
13 - ylabel('Amount of substance present (g)')
14 - hold off
15 - grid on
16 - grid minor
```

Command Window


```
ka_12.m x
clc
close all
clearvars
t = 0:1:500
x = (1000
plot(t,x)
xlabel('T
ylabel('A
hold on
y = (1000
plot(t,y)
xlabel('T
ylabel('A
hold off
grid on
grid mino
```



and Window
to MATLAB? See res

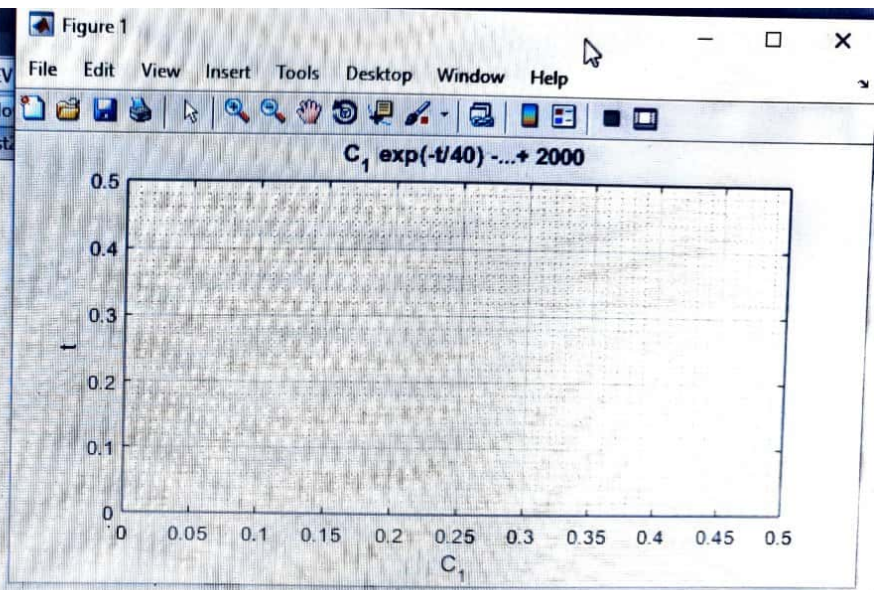
script


```
EDIT BREAKPOINTS RUN
ri > AppData > Local > Microsoft > Windows > INetCache > IE > I9LWRHEV
Editor - C:\Users\Emmanuel Nwaohin\AppData\Local\Microsoft\Windo
emeka_12.m x mexish.m x emeka_test.m x emeka_test
1 - clc
2 - close all
3 - clearvars
4 - y=dsolve('Dy=50*(1+sin(t))-0.025*y','t')
5 - t=(0:0.5:7.5)
6 - ezplot(y,t)
7 - grid on
8 - grid minor

Command Window
New to MATLAB? See resources for Getting Started.

Columns 13 through 16
6.0000 6.5000 7.0000 7.5000

fx >>
```



Editor - C:\Users\Emmanuel Nwachiri\AppData\Local\Microsoft\Windows\NetCache\IE\9LWRHEV\solve4.m

emeka_12.m x mexish.m x emeka_test.m x emeka_test2.m x solve1.m x solve2.m x solve3.m x solve4.m x

```
1 - clc
2 - close all
3 - clearvars
4 - b=0:1:500;
5 - tstep = rem(b,2)==0
6 - t = 0:tstep:500;
7 - x = ((1000)+(49.88)*(sin(t))+(2.49)*(cos(t))-802.49*exp(-0.05*t));
8 - plot(t,x)
9 - xlabel('Time (hr)')
10 - ylabel('Amount of substance present (g)')
11 - grid on
12 - grid minor
```

Command Window

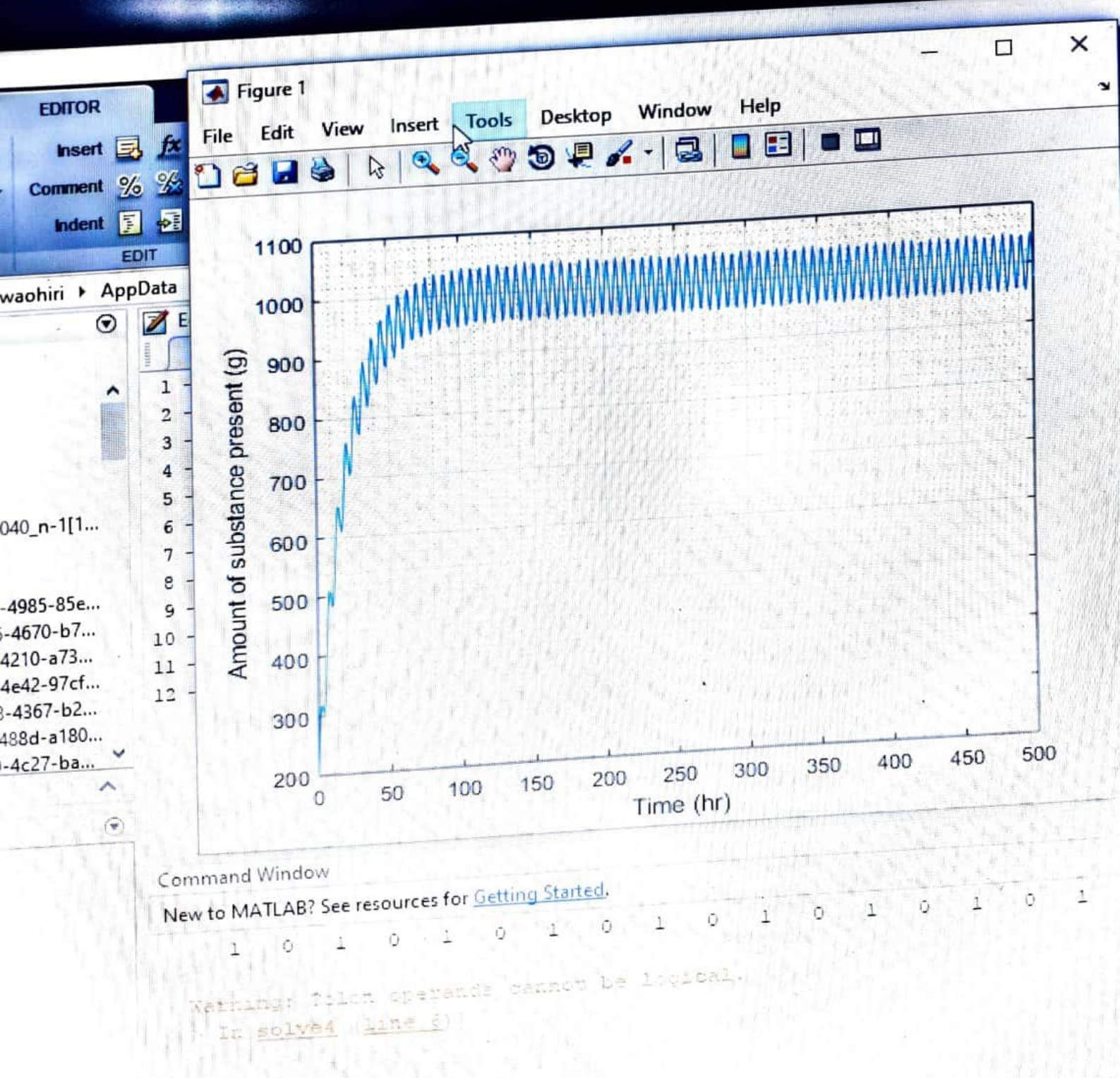
New to MATLAB? See resources for [Getting Started](#).

1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1

Warning: Colon operands cannot be logical.
In solve4 (line 5)

>>
<

script




```
1 - clc
2 - close all
3 - clear vars
4 - y=dsolve('Dy=50*(1+sin(t))-0.025*y','t')
```

Command Window

New to MATLAB? See resources for [Getting Started](#).

y =
 $C1 \cdot \exp(-t/40) - (2000 \cdot 1601^{(1/2)} \cdot \cos(t + \text{atan}(1/40)))/1601 + 2000$

>>