Yaw-Mwoni Adaw
18/EH/A05/065 Date: / /

Question 1

$T_1 = 10°c$

$T_2 = 20°c$

Time taken = 5mins = 5 x 60 = 300s

Actual ~~temp~~ CT = 24.9°c

2time = ??

IF from IT to ST = 20°c − 10°c = 10°c

and it takes 5mins to cover 10°c

5°c = ½ of 5mins

= 5°c = 2.5mins (to move from 20°c) to 25°c

25°c = 2.5m

24.9°c = ?

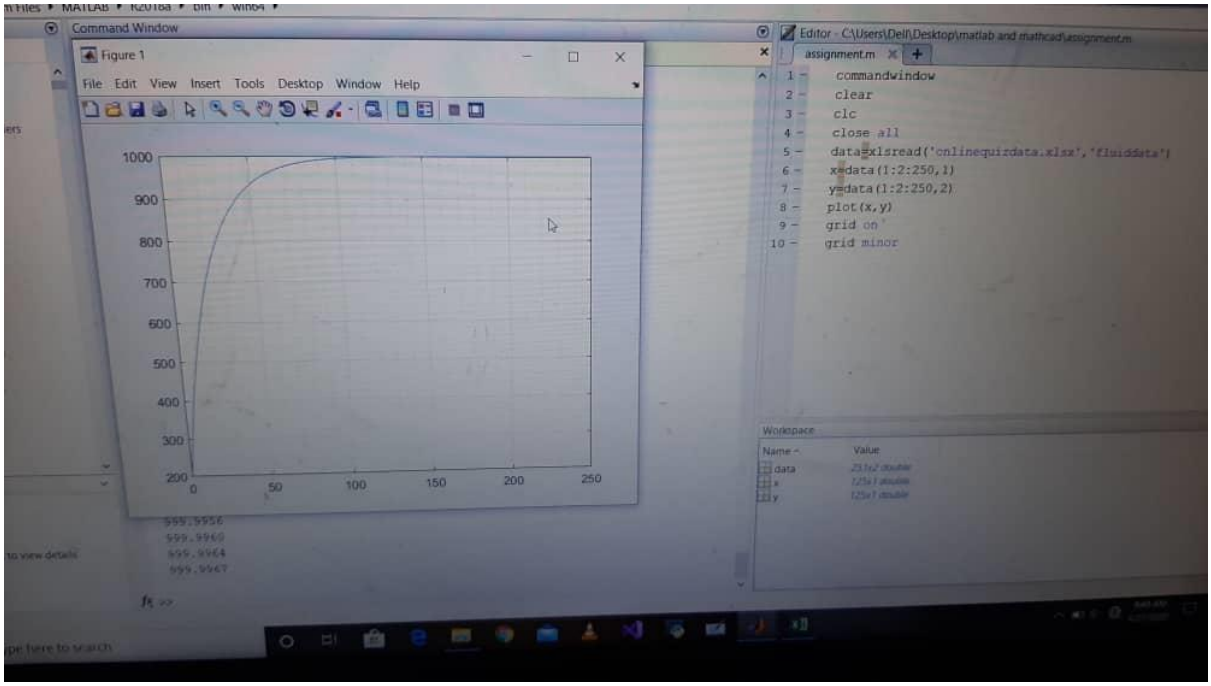
cross multiply

$= \frac{2.5 \times 24.9}{25}$ ns = [150 sec = 2.5mins]

$\frac{150 \times 24.9}{25}$ = 6x24.9 = 149.4

∴ 149.4 ÷ 60

= 2.49 = 2min 49sec


Command Window
Figure 1
File Edit View Insert Tools Desktop Window Help
1000
900
800
700
600
500
400
300
200
0
50
100
150
200
250
Editor - C:\Users\Dell\Desktop\matlab and mathcad\assignment.m
assignment.m
1 - commandwindow
2 - clear
3 - clc
4 - close all
5 - data=xlsread('onlinequizdata.xlsx','fluiddata')
6 - x=data(1:2:250,1)
7 - y=data(1:2:250,2)
8 - plot(x,y)
9 - grid on
10 - grid minor
Workspace
Name
Value
data
x
y