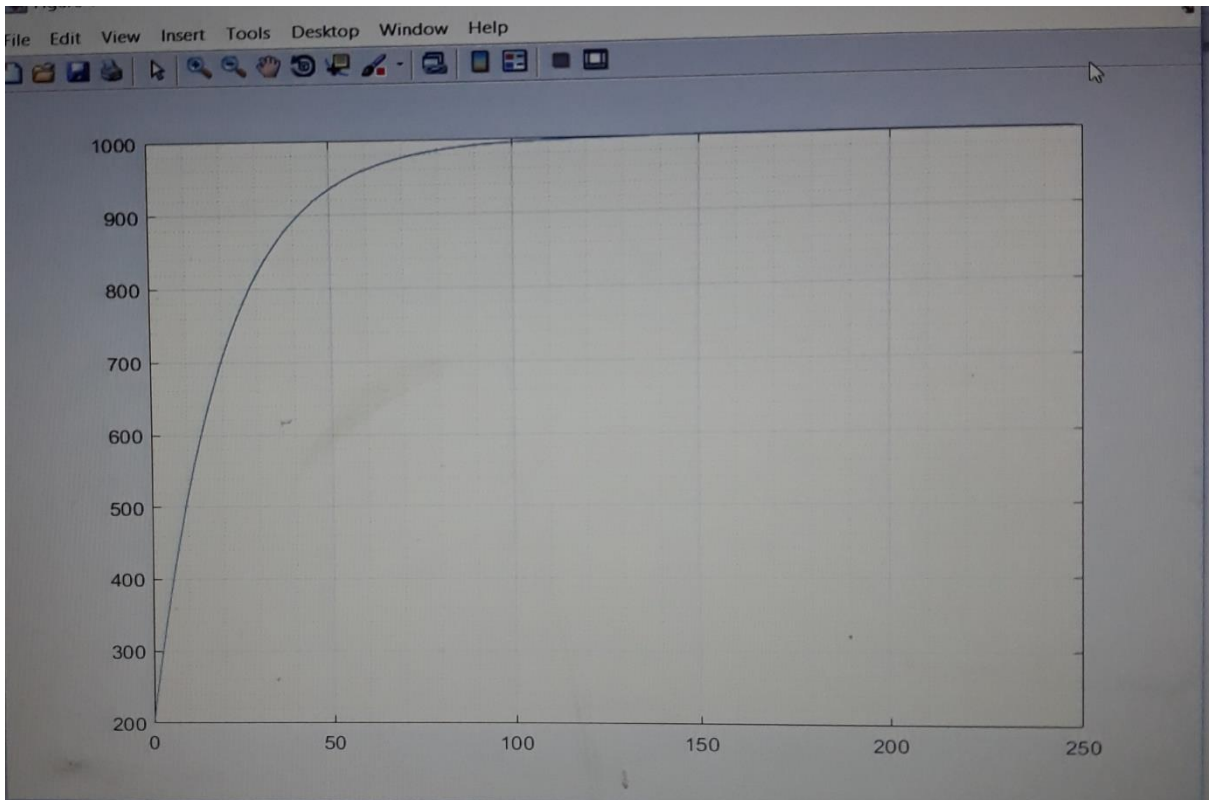


```
1 -  commandwindow
2 -  clear
3 -  clc
4 -  close all
5 -  format short g
6 -  mdata = xlsread('onlinequizdata.xlsx','fluiddata')
7 -  x = mdata(1:2:250,1)
8 -  y = mdata(1:2:250,2)
9 -  plot(x,y)
10 - grid on
11 - grid minor
12
```

Command Window

```
999.99
999.99
999.99
999.99
999.99
999.99
999.99
999.99
999.99
999.99
1000
1000
1000
1000
1000
fx >>
```



Question 1

$$T_1 \text{ of thermometer} = 10^\circ\text{C}$$

$$T_2 \text{ of thermometer} = 20^\circ\text{C at}$$

$$\text{Time taken} = 5 \text{ minutes} = 300 \text{ Sec}$$

$$10^\circ\text{C at } 0 \text{ sec}$$

$$20^\circ\text{C at } 300 \text{ sec}$$

$$\Delta T = 20 - 10 = 10^\circ\text{C}$$

$$\text{Find } T = 24.9^\circ\text{C} \quad \Delta T_c = 24.9 - 10 = 14.9^\circ\text{C}$$

$$10^\circ\text{C to } 300 \text{ sec}$$

$$14.9^\circ\text{C to } x$$

$$10x \text{ to } 300 \times 14.9$$

$$10x = 4470$$

$$10x = 447$$

$$x = 44.7 \text{ seconds}$$

$$x = 7 \text{ minutes } 27 \text{ seconds}$$