Post lab

Lab 6

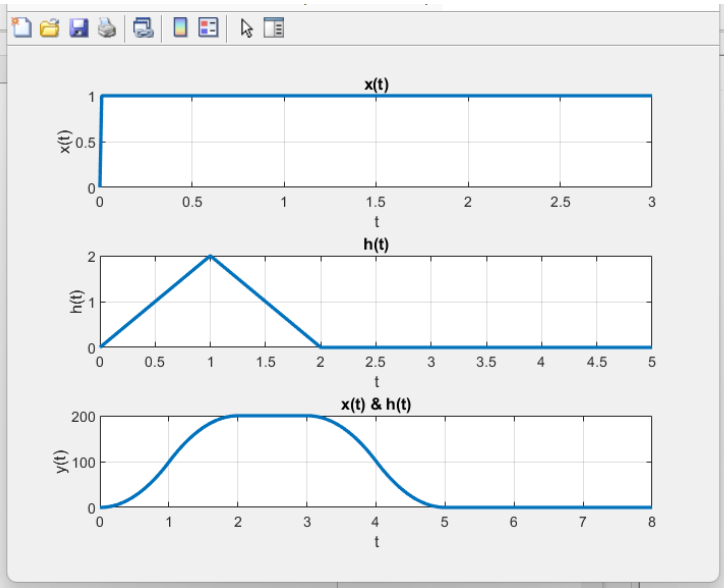
Q2

ktop ▸ Matlab ▸ Lab 6

Editor - C:\Users\hp\OneDrive\Desktop\Matlab\Lab 6\untitled4.m

fun1.m | fun2.m | untitled4.m

```
1
2       t1 = 0:0.01:3;
3       t2 = 0:0.01:5;
4       t3 = 0:0.01:8;
5
6       h = fun1(t1);
7       t = fun2(t2);
8
9       z= conv(h,t);
10
11      subplot(313),plot(t3,z,'LineWidth',2)
12      title('x(t) & h(t)')
13      xlabel('t')
14      ylabel('y(t)')
15
16      grid
```



Editor - C:\Users\hp\OneDrive\Desktop\Matlab\Lab 6\fun2.m

fun1.m | fun2.m | untitled4.m

```
function t = fun2(t2)

t = 2*t2.*(t2>=0 & t2<1);
t = t + (-2*t2+4).*(t2>=1 & t2<2);

subplot(312),plot(t2,t,'LineWidth',2)

title('h(t)')
xlabel('t')
ylabel('h(t)')



grid
```

fun1.m * | fun2.m | untitled4.m

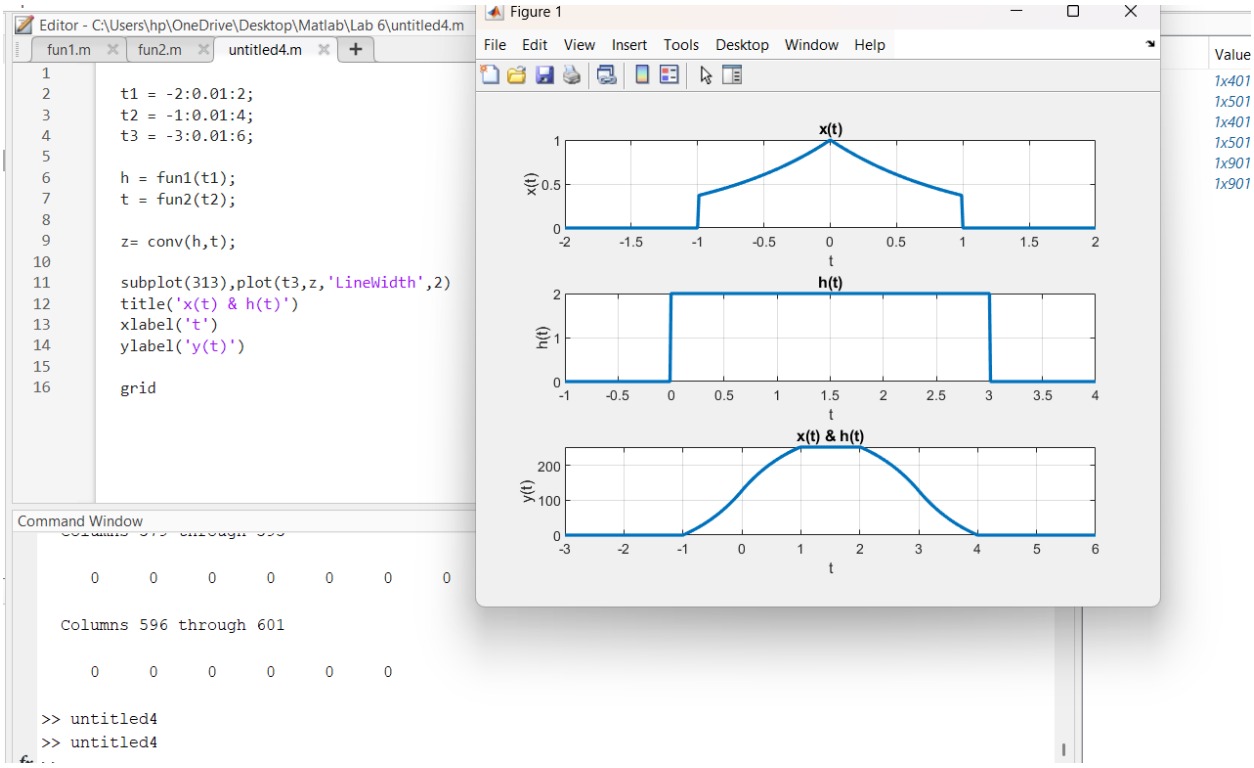
```
function h = fun1(t1)

h = 1*(t1>0);


subplot(311),plot(t1,h,'LineWidth',2)

title('x(t)')
xlabel('t')
ylabel('x(t)')
grid
```

Q1


Editor - C:\Users\hp\OneDrive\Desktop\Matlab\Lab 6\untitled4.m
fun1.m
fun2.m
untitled4.m
1 t1 = -2:0.01:2;
2 t2 = -1:0.01:4;
3 t3 = -3:0.01:6;
4
5 h = fun1(t1);
6 t = fun2(t2);
7
8 z= conv(h,t);
9
10 subplot(313),plot(t3,z,'LineWidth',2)
11 title('x(t) & h(t)')
12 xlabel('t')
13 ylabel('y(t)')
14
15 grid
16
Command Window
0 0 0 0 0 0 0
Columns 596 through 601
0 0 0 0 0 0
>> untitled4
>> untitled4
Figure 1
File Edit View Insert Tools Desktop Window Help
x(t)
h(t)
x(t) & h(t)
t
Value
1x401
1x501
1x401
1x501
1x901
1x901

fun1.m | fun2.m | untitled4.m

```
function t = fun2(t2)

t = zeros(size(t2));
t = t + 2.*(t2>=0 & t2<2);
t = t+2.*(t2>=2 & t2<=3);

subplot(312),plot(t2,t,'LineWidth',2)

title('h(t)')
xlabel('t')
ylabel('h(t)')



grid
```

fun1.m | fun2.m | untitled4.m

```
function h = fun1(t1)

h = exp(t1).*(t1>-1 & t1<0);
h = h + exp(-t1).*(t1>=0 & t1<1);

subplot(311),plot(t1,h,'LineWidth',2)

title('x(t)')
xlabel('t')
ylabel('x(t)')
grid

```