Lab 4

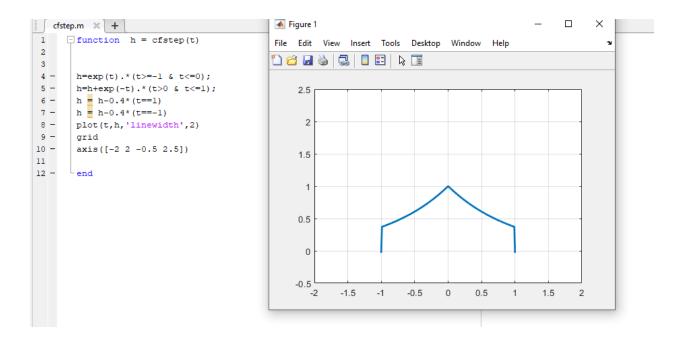
Ex1

```
cfstep.m × +
                                                     Figure 1
2
                                                     File Edit View Insert Tools Desktop Window Help
3
     function u = cfstep(t1,t2,t0)
                                                     4
5 -
      inc = 0.01;
                                                         1.5
6
7 -
      n = -tl:inc:t2;
8
9 -
      u=[zeros(1,(t1+t0)./inc) 1 ones(1,(t2-t0)./inc)]
10
11 -
      plot(n,u)
12 -
      grid
                                                         0.5
13 -
     axis([-0.5 12 -0.5 1.5])
14 -
15
                                                          0
                                                         -0.5
                                                             0
                                                                                   6
                                                                                      8
                                                                                                        12
Command Window

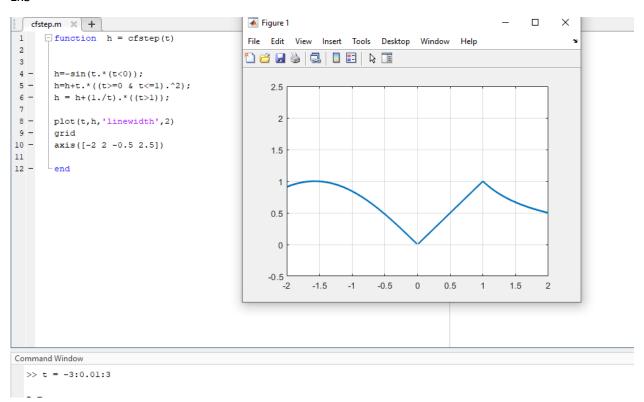
Eliof in Giscep (line /)

n = -t:inc:t;
  >> f= cfstep(t1,t2,t0)
  u =
```

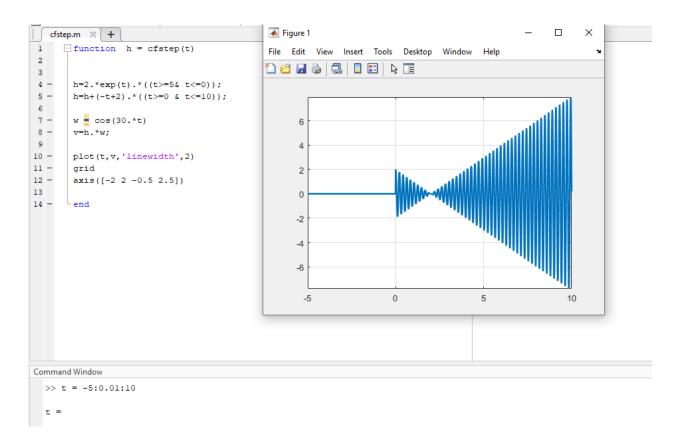
Ex2



Ex3



```
cfstep.m × +
                                 Figure 1
                                                                      - □ ×
1
    function h = cfstep(t)
                                  File Edit View Insert Tools Desktop Window Help
2
                                 3
4 -
     h=-0.*((t<2));
 5 -
      h=h+1.*((t>=2 & t<=4).^2);
                                     2.5
      h = h+(0).*(t>4);
 6 -
 7
                                     2
 8 -
     plot(t,h,'linewidth',2)
 9 -
10 -
      axis([-2 2 -0.5 2.5])
                                     1.5
11
12 -
                                     1
                                     0.5
                                     -0.5
-3
                                         -2 -1 0 1 2
                                                              3 4 5
                                                                            6
Command Window
 >> t = -3:0.01:6
 t =
```



Ex 6

