```
Editor - R:\Yeongu\MATLAB EVERYTHING\Compu1_611\Q1\Q1.A\myfunc1.m
                                                                 myfunc1.m × +
      function [sys, x0, str, ts] = myfuncl(t,x,u,flag)
1
2 -
        switch flag
 3 -
            case 0
 4 -
                [sys,x0,str,ts]=mdlIntializeSizes;
5 -
           case 1
6 -
                sys=mdlDerivatives(x,u,t);
7 -
            case 3
8 -
               sys=mdlOutputs(x,u,t);
9 -
           case {2, 4, 9}
10 -
                svs=[];
11 -
            otherwise
12 -
                error(['Unhandled flag = ', num2str(flag)]);
13 -
       end
14 -
      - end
15
16
      function [sys, x0, str, ts] = mdlIntializeSizes
17 -
       sizes=simsizes;
18
19 -
       sizes.NumContStates=1;
20 -
       sizes.NumOutputs = 1;
21 -
       sizes.NumInputs = 0;
22
23 -
       sizes.NumDiscStates=0;
       sizes.DirFeedthrough=0;
24 -
25 -
      sizes.NumSampleTimes=1;
26 -
       sys=simsizes(sizes);
27 -
       str=[];
28 -
       ts=[0 0];
29 -
       x0 = -0.0001;
30 -
      - end
31
32
            function sys=mdlDerivatives(x,u,t)
33 -
                sys = 1/(2*x);
34
35 -
            end
36
           function sys=mdlOutputs(x,u,t)
37 -
                sys=x;
38 -
            end
39
40
41
42
43
44
45
```