```
Editor - C:\Users\Hp\Documents\MATLAB\BlockDIAGRAMreduction.m
                                % Program for block diagram reduction technique
                         1
BodePlot.m
                     ×
                         2 -
                                ngl-1; dgl-[1 10]; sysgl-tf(ngl,dgl);
                    ж з -
Rlocus.m
                               ng2=1; dg2=[1 1]; sysg2=tf(ng2,dg2);
                        4 -
                                ng3=[ 0 1]; dg3=[1 44]; sysg3=tf(ng3,dg3);
Nyquist.m
                     20
                                ng4=[1 1]; dg4=[1 6]; sysg4=tf(ng4,dg4);
                         5 -
                     30
PIDcontroller.m
                         6 -
                                nhl=[1 1]; dhl=[1 2]; syshl-tf(nhl,dhl);
timeResponse.m
                     ×
                        7 -
                               nh2=2; dh2=1; sysh2=tf(nh2,dh2);
BlockDIAGRAMreduction.m ×
                               nh3-1; dh3-1; sysh3-tf(nh3,dh3);
                         8 -
                         9 -
                               sys2=series(sysg3,sysg4);
                        10 -
                               sys3=feedback(sys2,sysh1,+1);
                        11 -
                                sys4-series(sysg2,sys3);
                        12 -
                                sysl=sys2/sys4;
                        13 -
                                sys5=feedback(sys4,sys1);
                        14 -
                                sys6-series(sysgl,sys5);
                        15 -
                                sys=feedback(sys6,1);
                        16 -
                                tf (sys)
```

Command Window

>> BlockDIAGRAMreduction

Continuous-time transfer function.