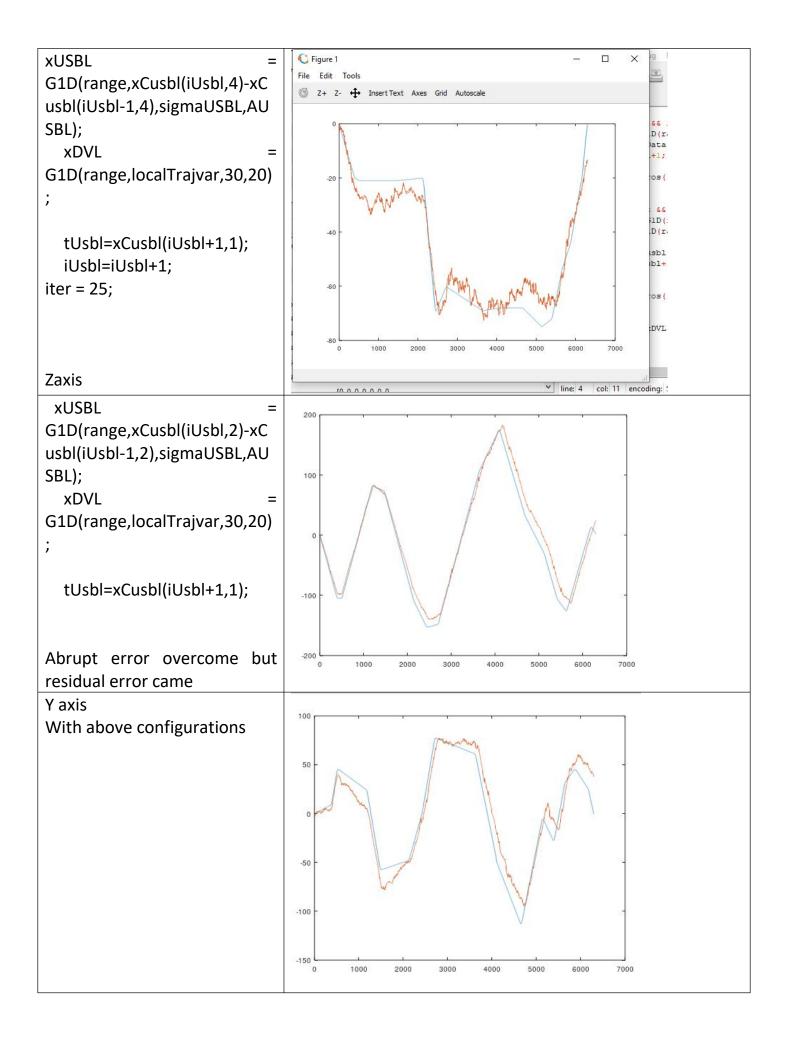
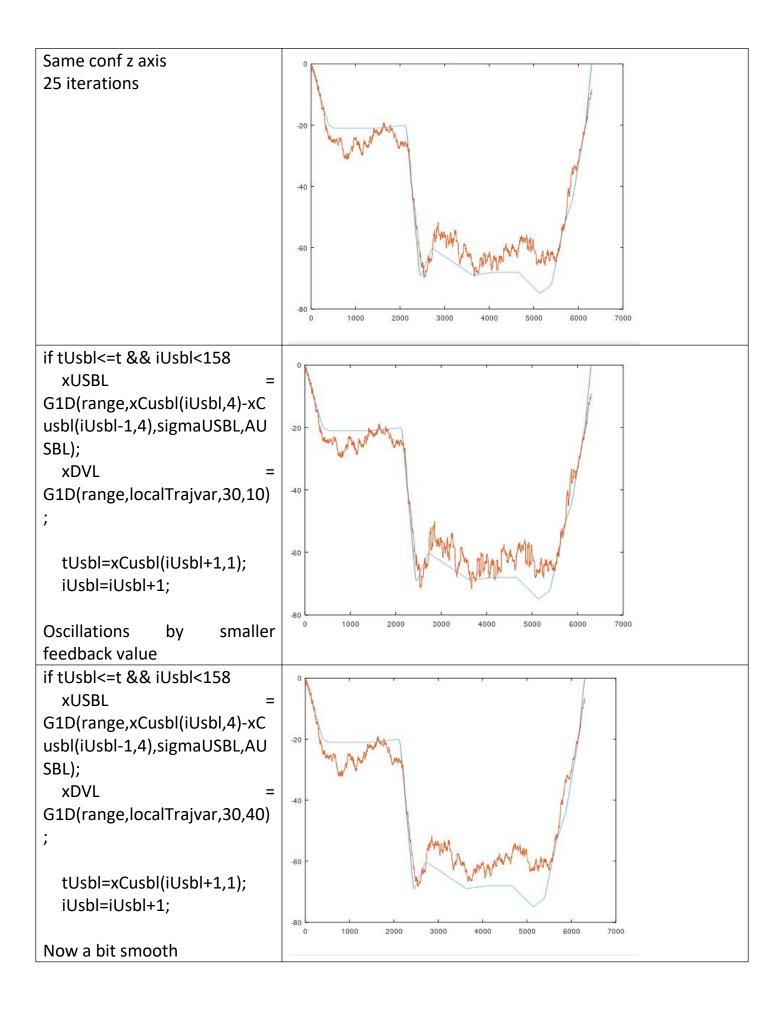
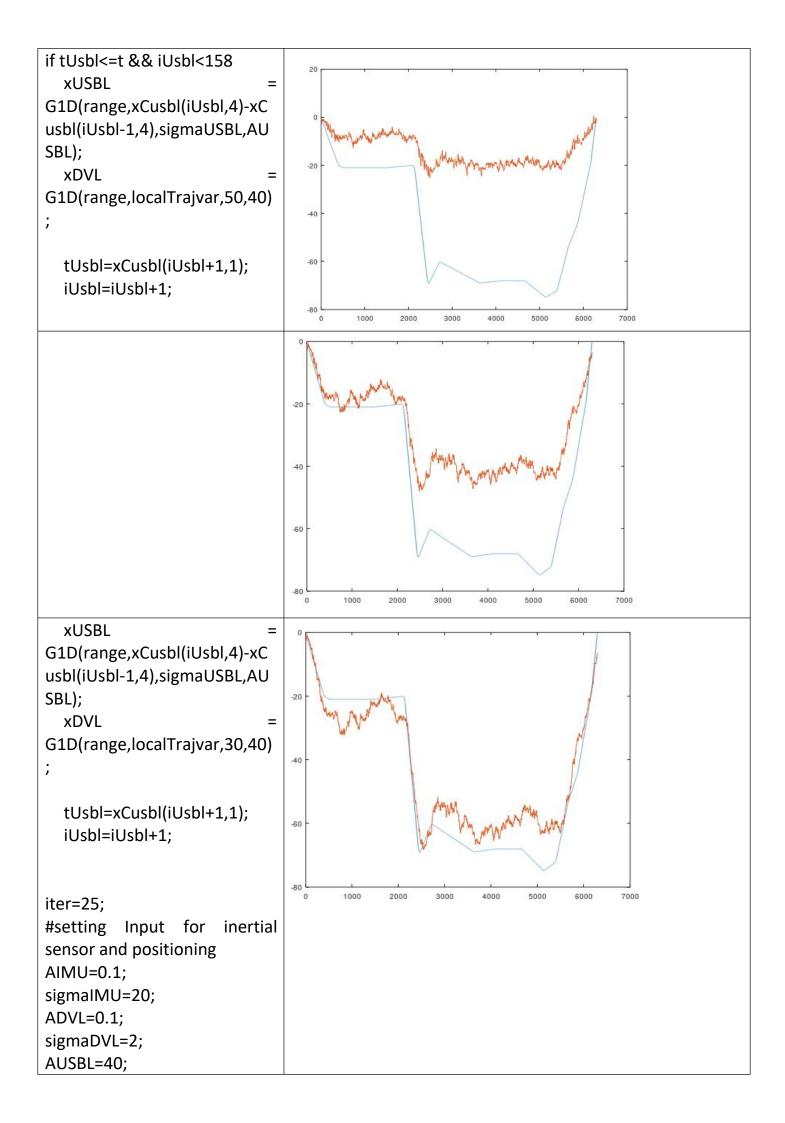


```
xUSBL
                                  20
G1D(range,xCusbl(iUsbl,4)-xC
usbl(iUsbl-1,4),sigmaUSBL,AU
                                  0
SBL);
  xDVL
G1D(range,localTrajvar,20,20)
                                 -20
  xIMU
                                 -40
G1D(range,localTrajvar,20,20)
  tUsbl=xCusbl(iUsbl+1,1);
                                 -60
                                         1000
                                                2000
                                                       3000
                                                             4000
                                                                    5000
                                                                           6000
                                                                                  7000
if tUsbl<=t && iUsbl<158
  xUSBL
G1D(range,xCusbl(iUsbl,4)-xC
usbl(iUsbl-1,4),sigmaUSBL,AU
SBL);
  xDVL
G1D(range,localTrajvar,30,20)
  xIMU
G1D(range,localTrajvar,30,20)
                                          1000
                                               2000
                                                     3000
                                                           4000
                                                                       6000
  tUsbl=xCusbl(iUsbl+1,1);
  iUsbl=iUsbl+1;
iter=40;
#setting
          Input for
                        inertial
sensor and positioning
AIMU=0.1;
sigmaIMU=20;
ADVL=0.1;
sigmaDVL=2;
AUSBL=40;
sigmaUSBL=0.1;
Z axis
```







```
sigmaUSBL=0.1;
zaxis
 xUSBL
G1D(range,xCusbl(iUsbl,4)-xC
usbl(iUsbl-1,4),sigmaUSBL,AU
SBL);
  xDVL
G1D(range,localTrajvar,30,5);
  tUsbl=xCusbl(iUsbl+1,1);
  iUsbl=iUsbl+1;
iter=25;
                                      1000
                                            2000
                                                                   6000
#setting
         Input for
                       inertial
sensor and positioning
AIMU=0.1;
sigmaIMU=20;
ADVL=0.1;
sigmaDVL=2;
AUSBL=40;
sigmaUSBL=0.1;
 xUSBL
G1D(range,xCusbl(iUsbl,4)-xC
usbl(iUsbl-1,4),sigmaUSBL,AU
SBL);
  xDVL
G1D(range,localTrajvar,30,5);
  tUsbl=xCusbl(iUsbl+1,1);
  iUsbl=iUsbl+1;
iter=25;
         Input for
#setting
                       inertial
sensor and positioning
AIMU=0.1;
sigmaIMU=30;
ADVL=0.1;
sigmaDVL=2;
AUSBL=40;
sigmaUSBL=0.1;
```

```
xUSBL
G1D(range,xCusbl(iUsbl,4)-xC
usbl(iUsbl-1,4),sigmaUSBL,AU
SBL);
                                 -40
  xDVL
G1D(range,localTrajvar,30,40)
                                 -60
  tUsbl=xCusbl(iUsbl+1,1);
                                 -80
  iUsbl=iUsbl+1;
                                -100
                                                                           7000
iter=25;
#setting Input for
                       inertial
sensor and positioning
AIMU=0.1;
sigmalMU=30;
ADVL=0.1;
sigmaDVL=5;
AUSBL=40;
sigmaUSBL=0.1;
  xUSBL
G1D(range,xCusbl(iUsbl,4)-xC
usbl(iUsbl-1,4),sigmaUSBL,AU
SBL);
  xDVL
G1D(range,localTrajvar,30,40)
  tUsbl=xCusbl(iUsbl+1,1);
                                30
  iUsbl=iUsbl+1;
                                       1000
                                             2000
                                                   3000
                                                         4000
                                                                           7000
iter=25;
#setting Input for
                       inertial
sensor and positioning
AIMU=0.1;
sigmaIMU=30;
ADVL=0.1;
sigmaDVL=0.5;
AUSBL=40;
```

sigmaUSBL=0.1;

```
xUSBL
G1D(range,xCusbl(iUsbl,4)-xC
usbl(iUsbl-1,4),sigmaUSBL,AU
SBL);
                               -20
  xDVL
G1D(range,localTrajvar,30,40)
                               -40
  tUsbl=xCusbl(iUsbl+1,1);
                               -60
  iUsbl=iUsbl+1;
iter=25;
#setting Input for
                      inertial
sensor and positioning
AIMU=0.1;
sigmaIMU=30;
ADVL=0.1;
sigmaDVL=3;
AUSBL=40;
```

sigmaUSBL=0.1;

