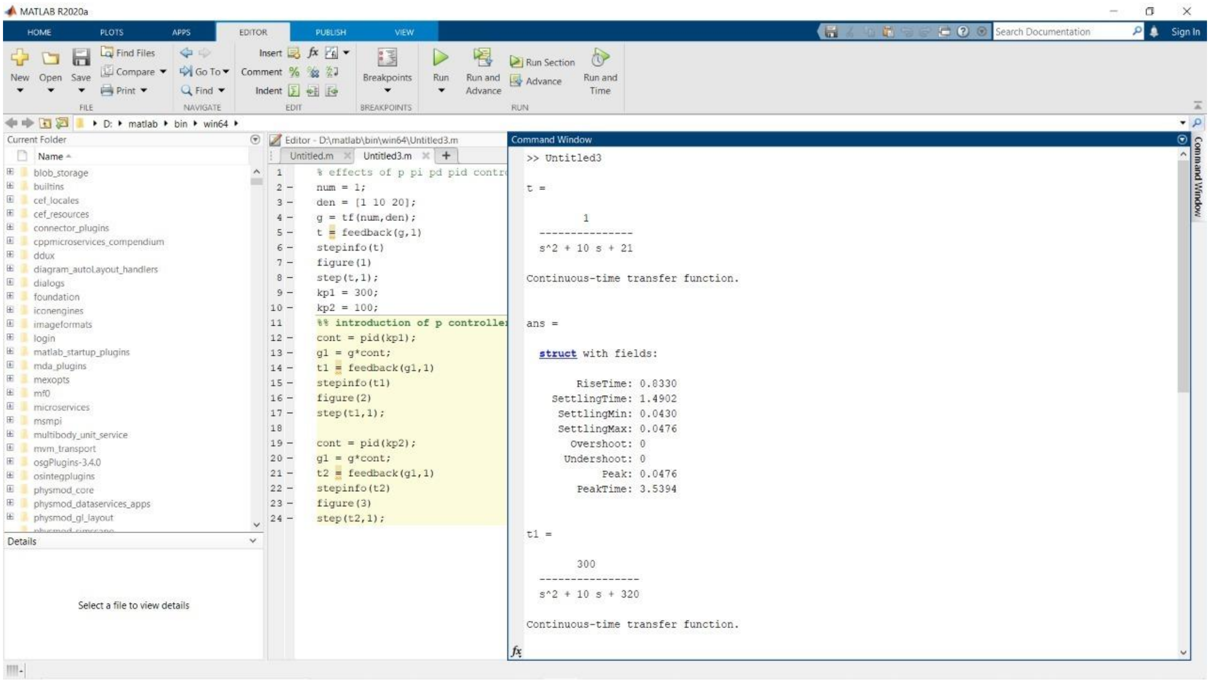
BATCH

Experiment no 4:

Study the Effect of P,PI,PD&PID Controller on the Step Response of Feedback Control system

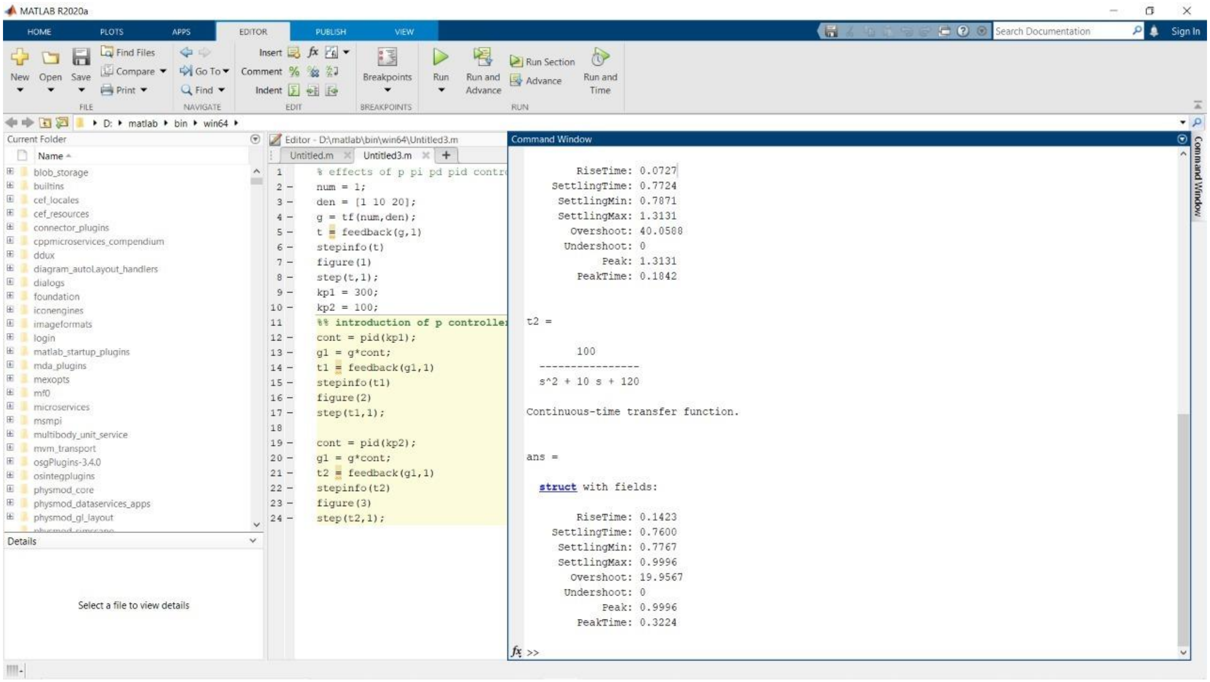
Observation:

Kp=1,ki=0,kd=0

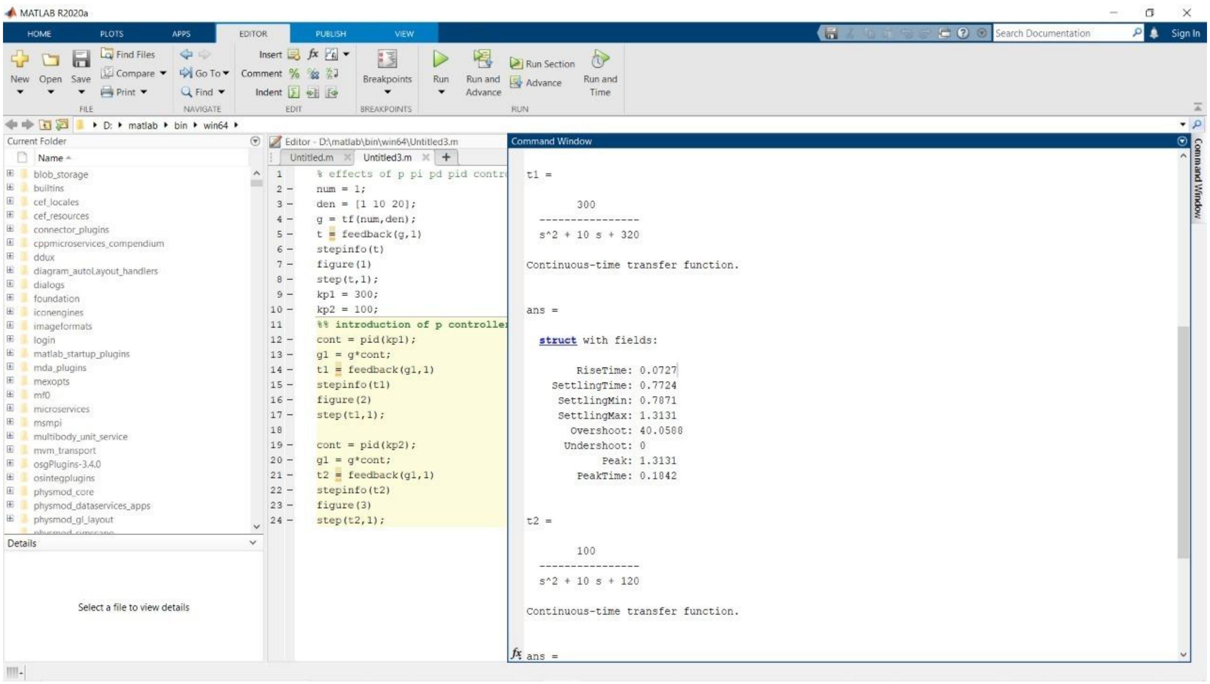


P-Controller

kp=100,ki=0,kd=0

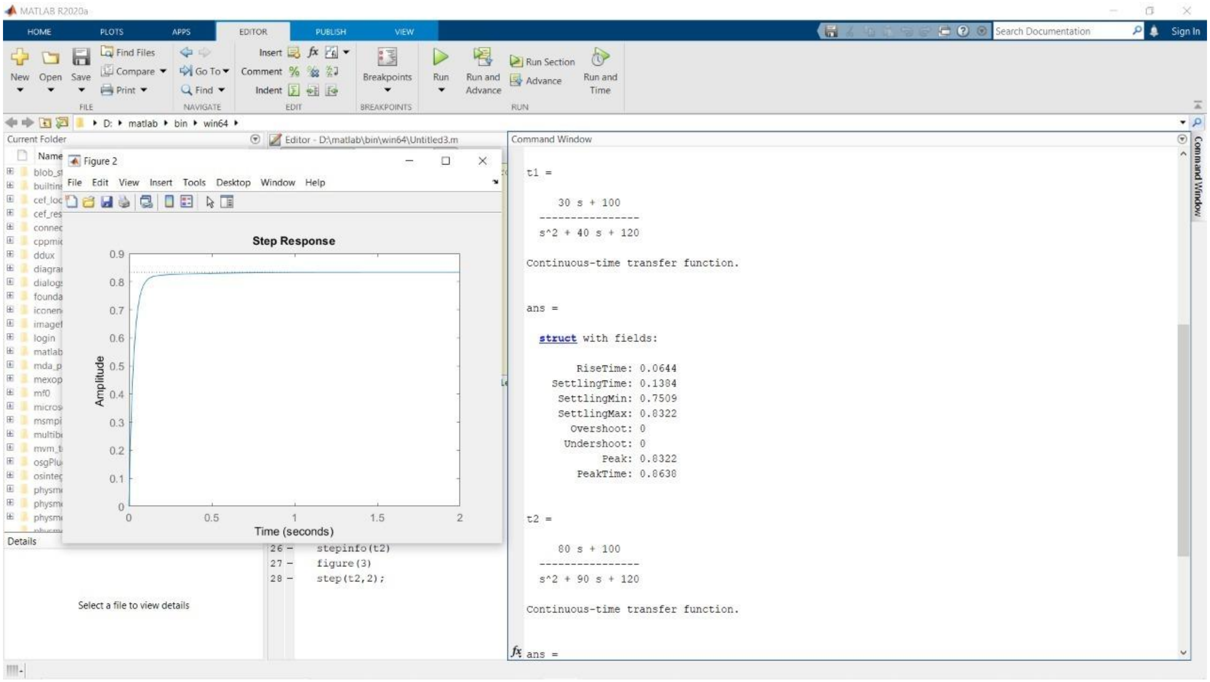


Kp=300,ki=0,kd=0

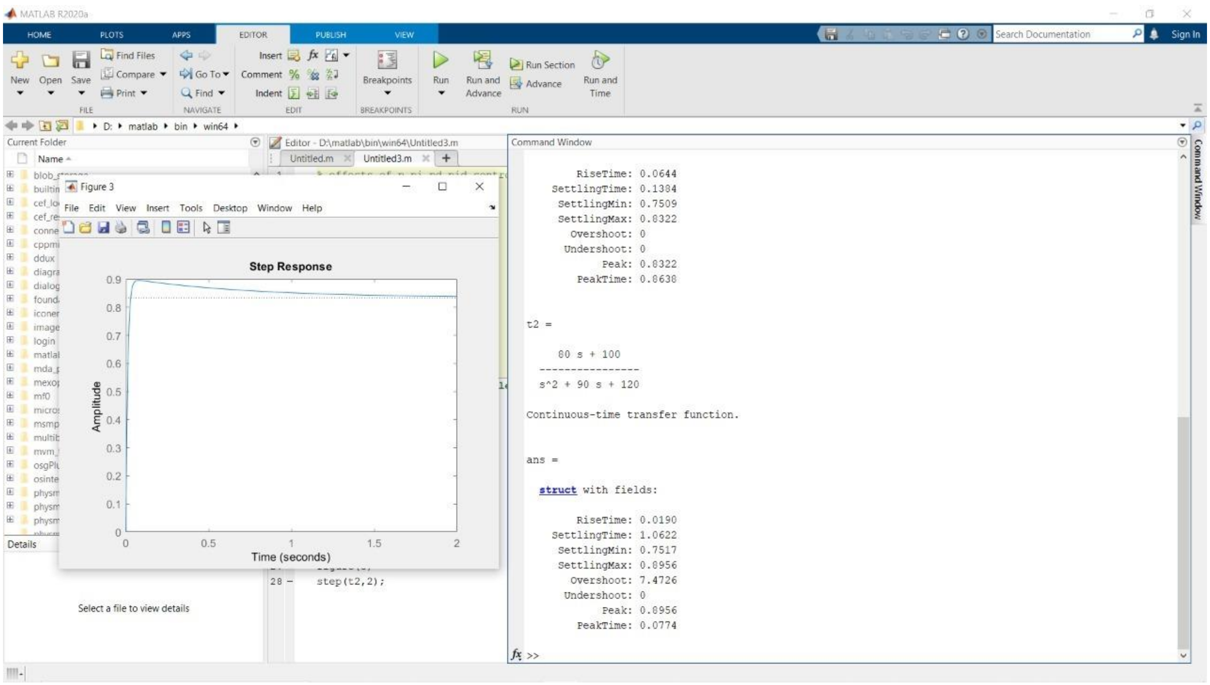


P-D Controller

Kp=100,ki=0,kd=30

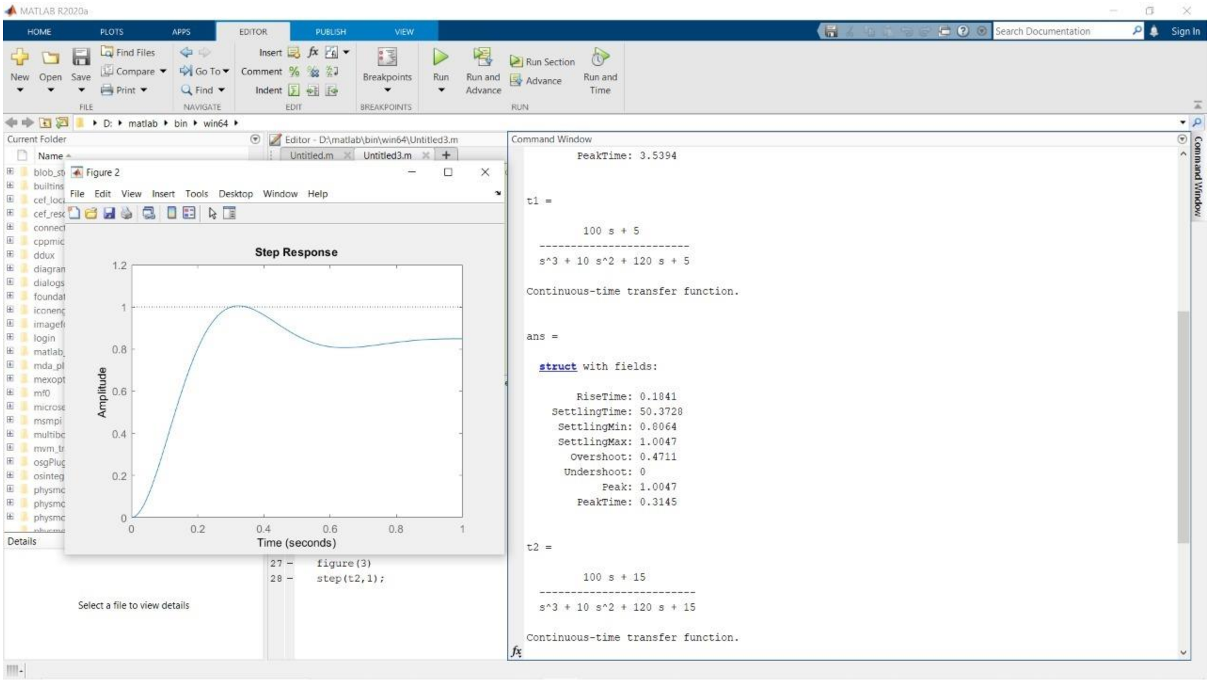


Kp=100,ki=0,kd=80

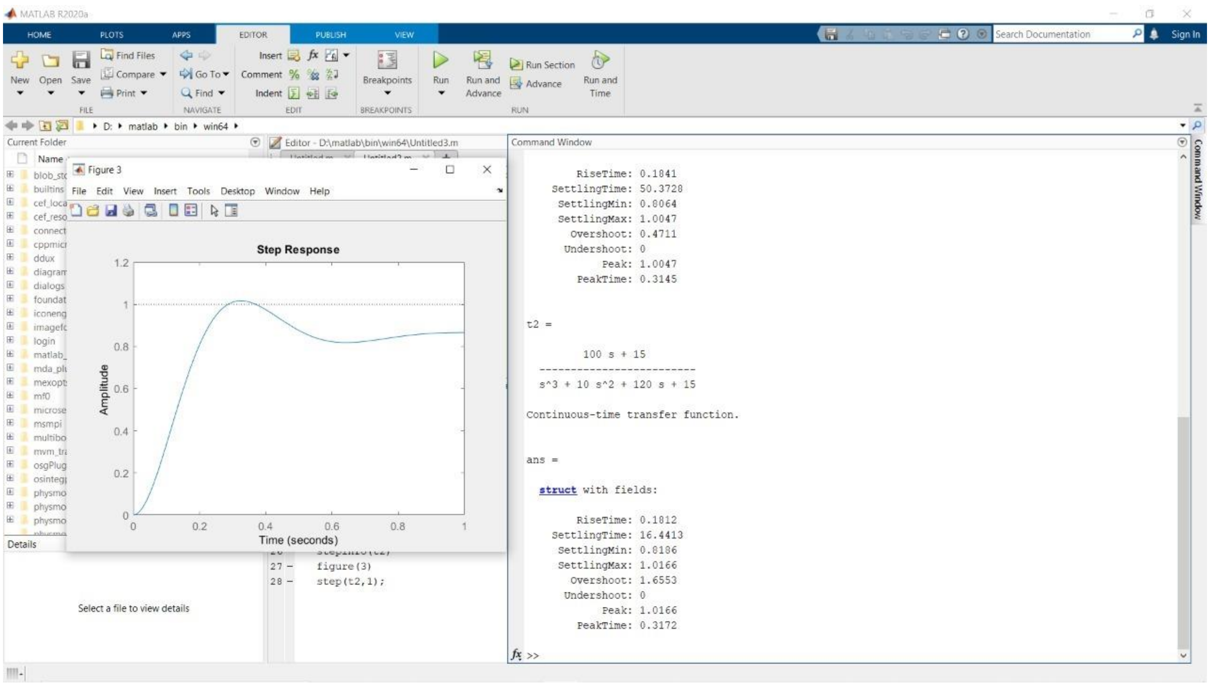


P-I Controller

Kp=100,ki=5,kd=0

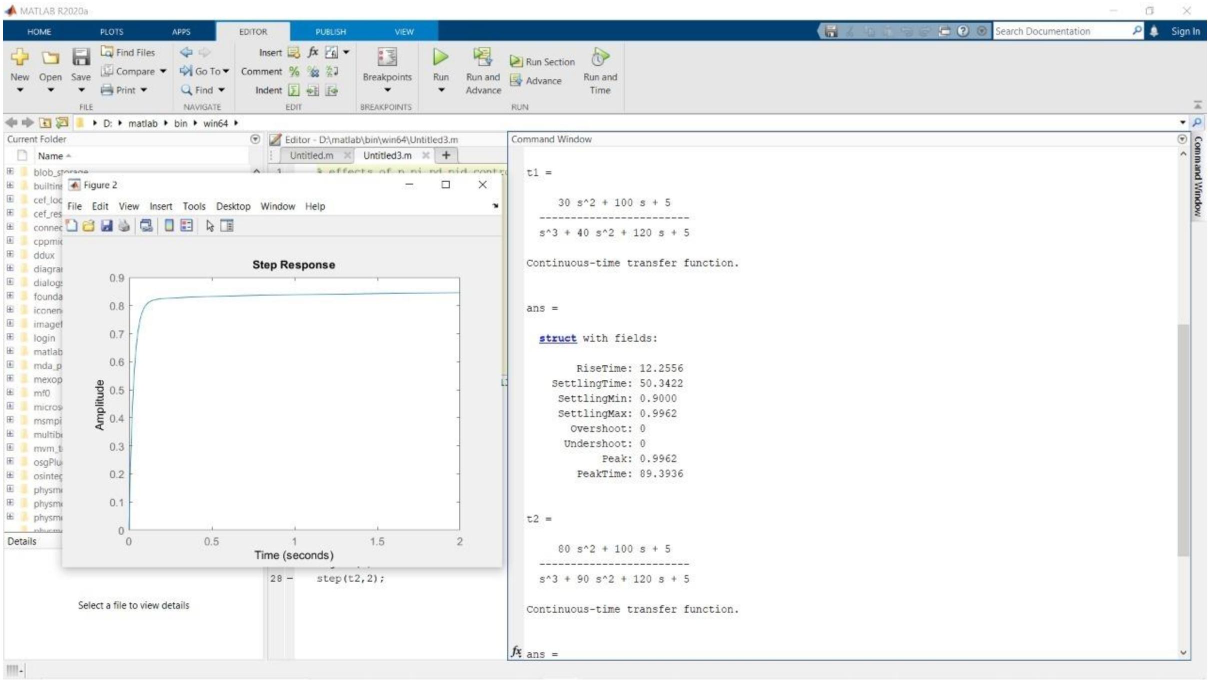


Kp=100,ki=15,kd=0

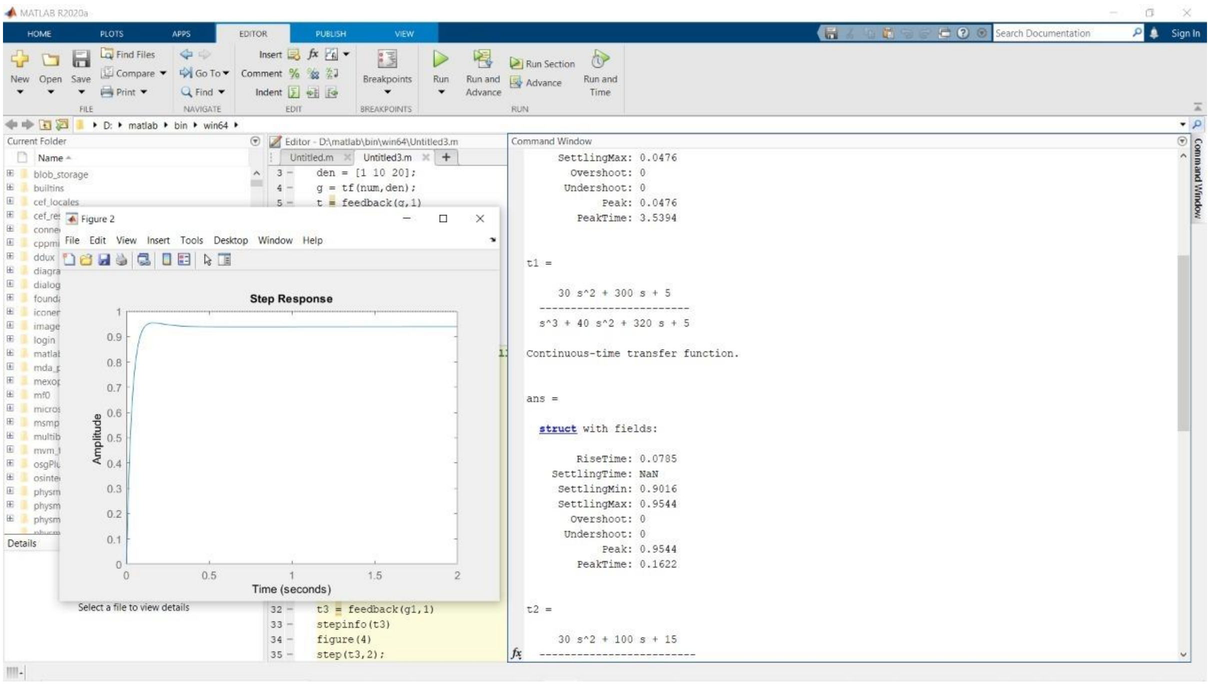


P-I-D Controller

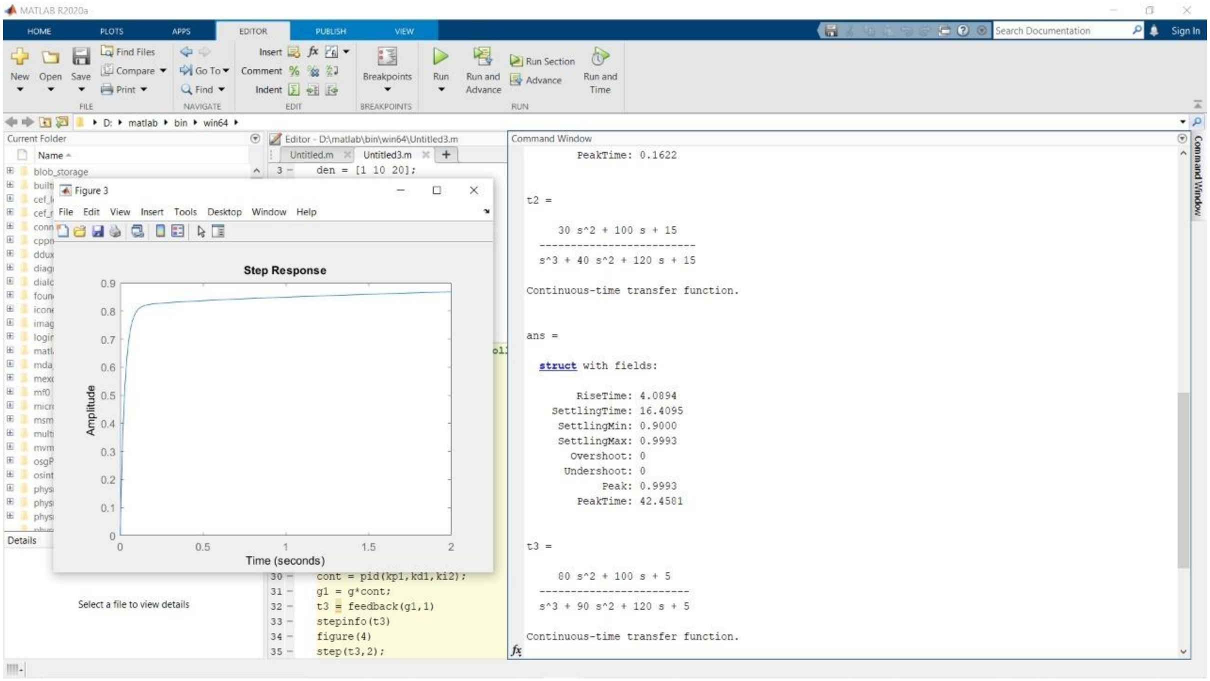
Kp=100,ki=5,kd=30



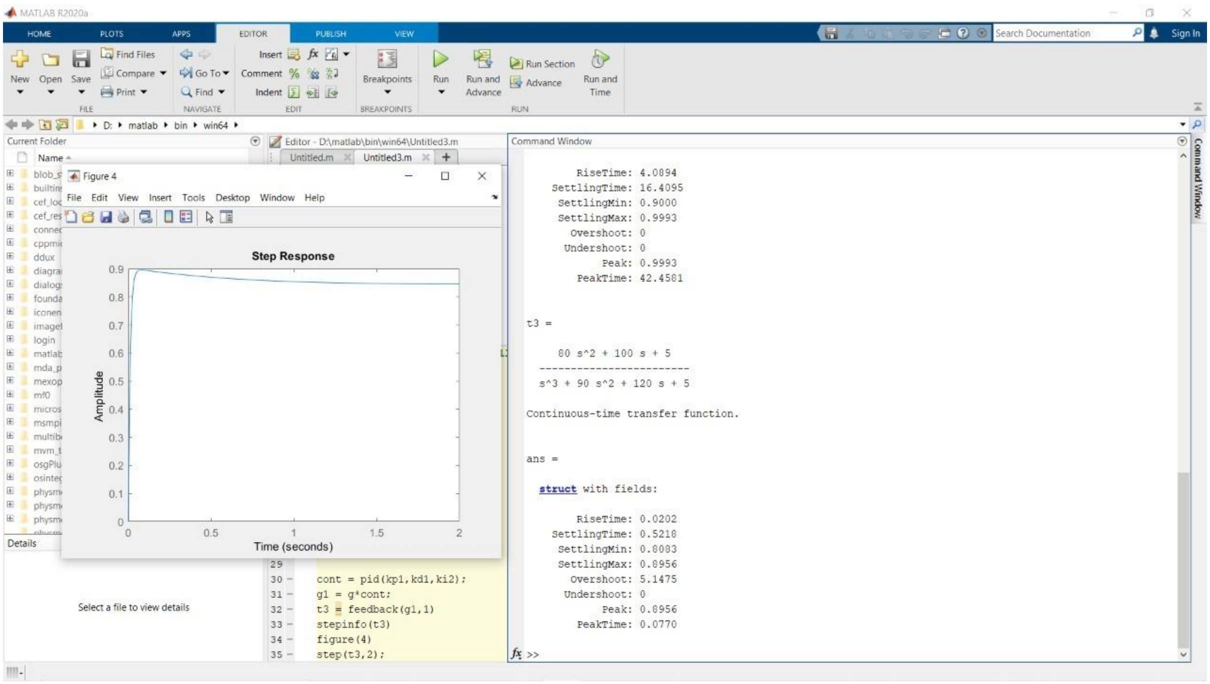
Kp=300,ki=5,kd=30



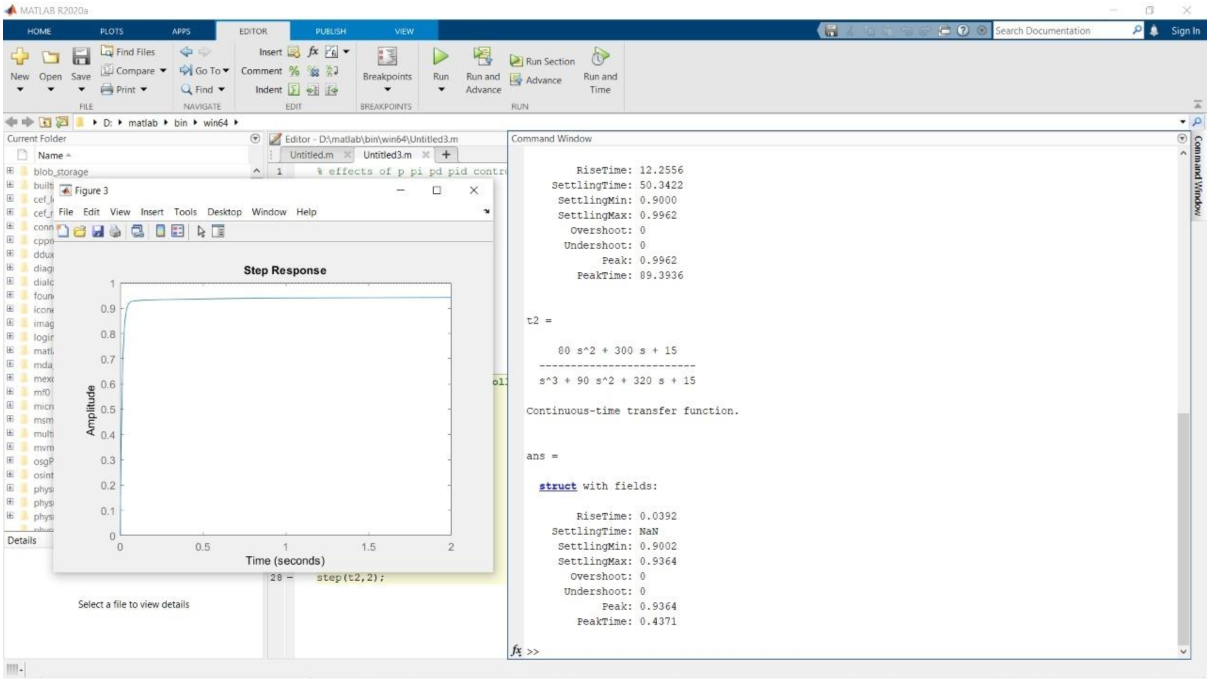
Kp=100,ki=15,kd=30



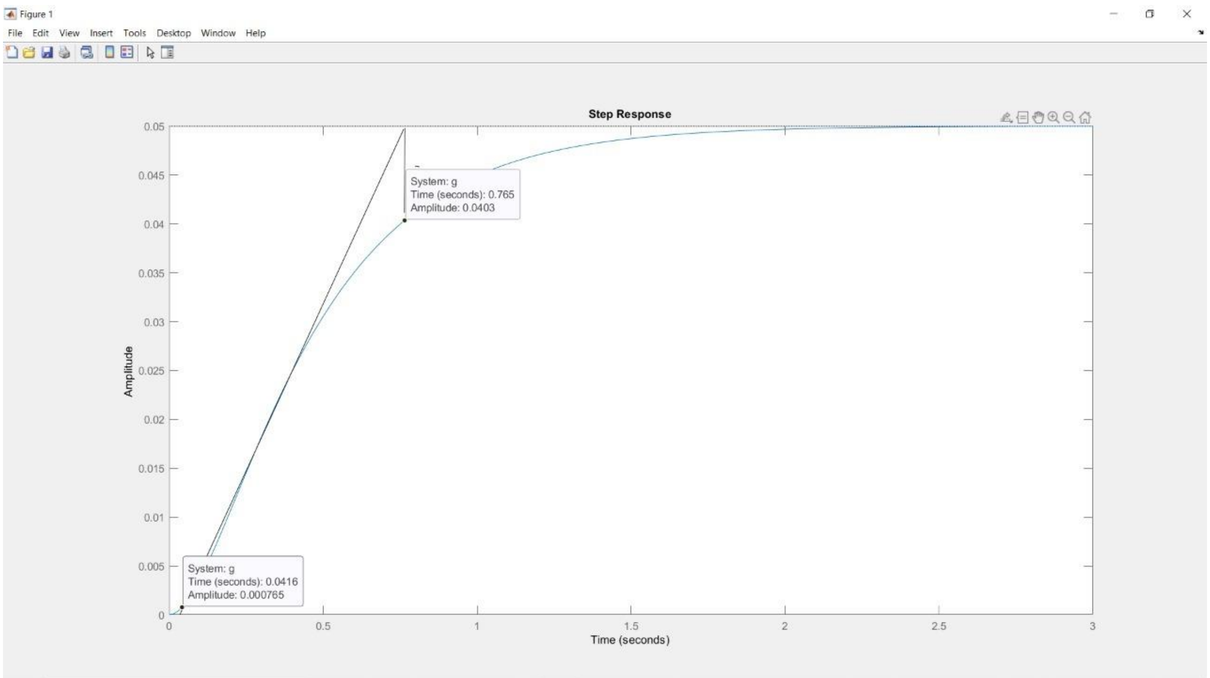
Kp=100,ki=5,kd=80



Kp=300,ki=15,kd=80



FOR OPTIMALUES OF PID CONTROLLER FROM STEP RESPONSE METHOD BY ZIEGLER-NICHOLAS RULES



PID Controller with OPTIMAL VALUES

Kp=417.316,ki=5016.177,kd=8.68