Control

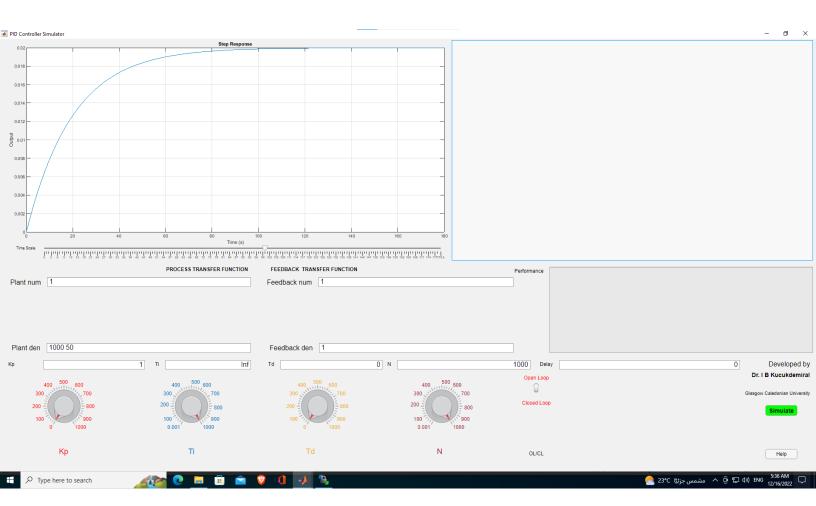


Name: Eslam Abdellatif Dyab

ID: 18010333

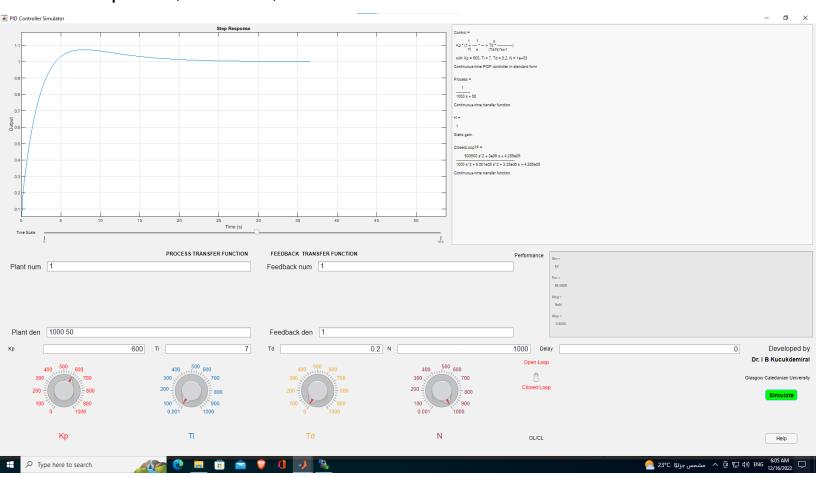
Section: 7

Open loop step response



PID Simulator Controller

Kp=600, Ki=85.7 ,Kd=120



PID Matlab Code

Kp=600, Ki=85.7, Kd=120

```
pid_code.m 💥
 1 -
     m = 1000;
     b = 50;
 2 -
 3
 4 -
     s = tf('s');
 5 —
      P = 1/(m*s + b);
 6
     Kp = 600;
 7 -
 8 - Ki = 85.7;
     Kd = 120;
 9 —
10
      C = pid(Kp, Ki, Kd);
11 -
12
       T = feedback(P*C, 1);
13 -
14
15 - step(T);
      stepinfo(T)
16 -
```

PID Matlab Code

Kp=600, Ki=85.7 ,Kd=120

Step response:

