**ASSIGNMENT 2**

**BY VISHRUT CHAWLA**

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**The Simulink block diagram**

**A screenshot of a computer

Description automatically generated**

**To simulate the PD controller(Kp+KdS)**

**A diagram of a circuit

Description automatically generated**

**For values Kp=1**

**Kd value taken is = 0.000001**

**Graph**

**A screen shot of a graph

Description automatically generated**

**For Kp=2**

**Kd=0.005**

**A screen shot of a graph

Description automatically generated**

**For Kp=5**

**Kd=0.08**

**A screen shot of a graph

Description automatically generated**

**For Kp=10**

**Kd=0.22**

**A screen shot of a graph

Description automatically generated**