Assignment 1

Name 刘胜琪 **ID** 519021910411

1. The two classifications of industrial control system applications are process control and motion control.

2. A closed-loop industrial system typically uses negative feedback.

3. List two examples of controlled variables for motion control applications.

   Answer: position, speed

4. An open-loop system does not have a C.
A) controller B) final control element C) feedback loop D) none of the above

5. The output of the measurement device is called the feedback signal.

6. The difference between the setpoint and feedback signal is referred to as the error signal, and is produced by the error detector.

7. Altering the manipulated variable causes the condition of the controlled variable to change.

8. The D is sent to the final control element.
A) measured variable B) feedback signal C) error signal D) control signal

9. Which of the following influences causes a controlled variable to change? D
A) A disturbance occurs B) A load demand varies
C) The setpoint is adjusted D) All of the above

10. Which of the following factors contributes to the dynamic response of a single control loop? D
A) the instrument in a control loop B) the inertia of the controlled variable
C) dead time D) all of the above