

# Define system, describe its components and their interaction

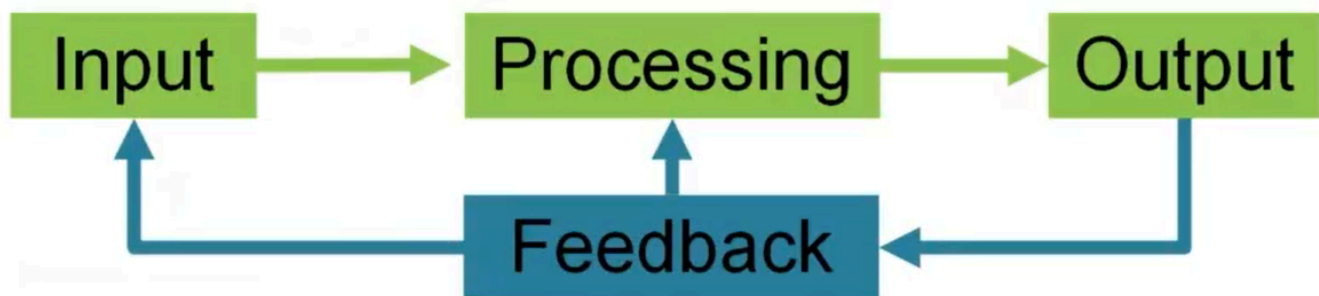
Tags: System, Control System

## What is a System?

System is a set of interrelated elements or components that interact to accomplish a goal

## Control System

*Input > Processing > Output > Feedback*



- **Input:** activity of gathering and capturing raw data
- **Processing:** converting or transforming data into useful outputs
- **Output:** production of useful information usually in the form of documents and reports
- **Feedback:** output that is used to make changes to input or processing activities

## Example: System

- The first automatic feedback controller used in an industrial process is generally agreed to be James Watt's **Flyball governor**, developed in 1769 for controlling the speed of a steam engine