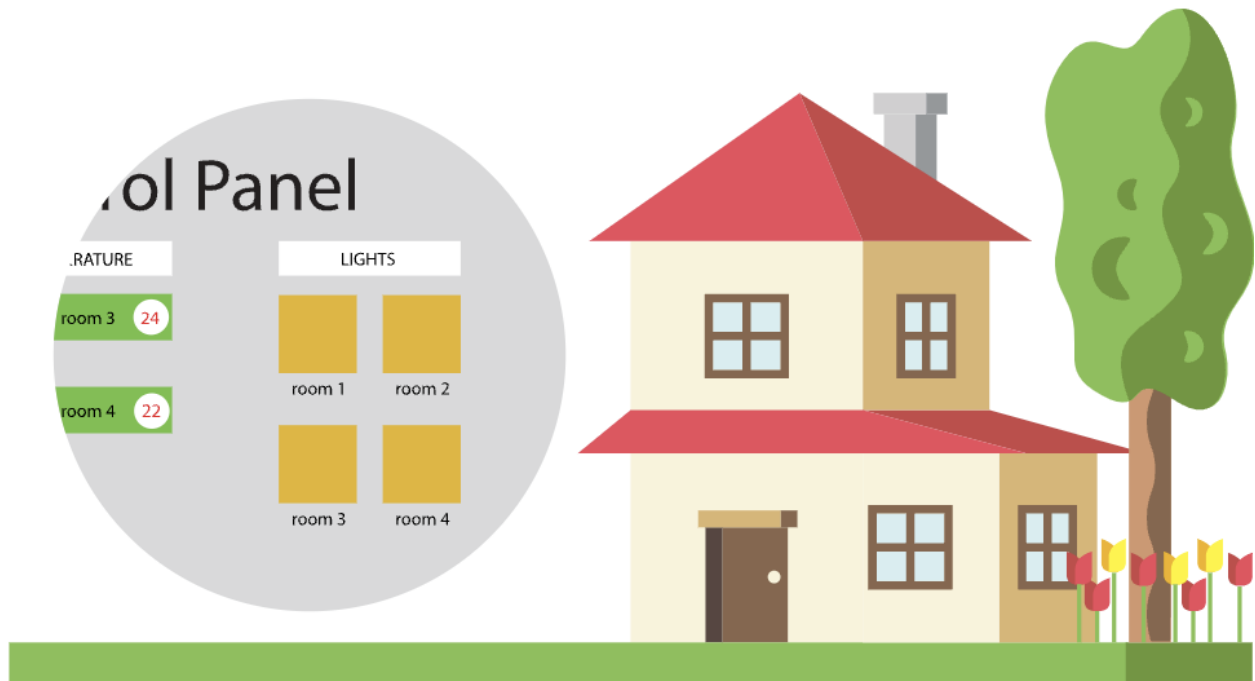


Control Systems



A central control system is used at an elderly people's residence. The system is able to monitor and control a wide variety of features such as heat, lighting and room access rights (using biometrics).

1. Outline the steps involving the sensor, processor and output transducer to manage the temperature in the house.

2. Describe the role of feedback in this control system.

[2]

3. The smart control system is managed by an operating system.

i. Describe **one** function of an operating system.

[2]

ii. Outline **one** reason why a dedicated operating system would be used.

[2]

4. Compare and contrast a centralized control system with a distributed control system for managing the temperature of a house.