

Topic 7 Revision

Topic 7 Revision - Answers

Each set of traffic lights in a city is controlled by a separate embedded system.

Go

Describe what is meant by an embedded system.

[2]

Go

State two other examples of embedded systems in daily life.

[2]

It has been proposed that all the traffic lights in the city should be controlled from a central computer.

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Discuss the advantages and disadvantages of using one central computer to manage the city's traffic light system.

[4]

Vehicle counts provide the city's traffic control centre with information regarding the number of vehicles on the city's roads.

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List two types of sensor that could be used to collect data on the number of vehicles. [2]

The data about traffic and road conditions will be shared with application (app) developers.

Their apps can provide real-time information about traffic conditions.

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Explain the benefit for drivers of having access to real-time information about traffic and road conditions. [3]

Go

Describe the role of feedback in a system that uses sensors and a microprocessor to control the temperature of a room.

[4]