



1.2.2 Open Source & Closed Source

1. Jacob makes use of an open source IDE (Integrated Development Environment).

a) State what is meant by the term 'open source software'.

[2 marks]

b) Give **one** benefit to Jacob of using an open source IDE rather than a closed source IDE.

[2 marks]

2. A gaming company decides to release a new video games console. The console will use a modified version of an open source operating system called Linux.

a) Explain the difference between open source and closed sources software.

[4 marks]

b) Explain why closed-source software is commonly distributed as compiled executable code rather than as source code for interpretation.

[2 marks]

c) Explain how Linux being open source would benefit the games company.

[2 marks]





3. Charlie will use database management software to store customers' personal and appointment details. Charlie is considering both open source and closed source database software.

Compare the differences between open source software and closed source software and recommend which type of database software Charlie should use.

You should refer to the following in your answer:

- Cost
- Usability
- Extensibility
- Security
- Support available

[9 marks]

