

# IY5512: Coursework 0

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If feedback is required, coursework solutions must be submitted electronically, as an email attachment, to the following email address: [me@chrismitchell.net](mailto:me@chrismitchell.net).

Coursework submissions should normally be in the form of a single pdf file. If you use Word, a free add-on to enable you to save a document in pdf format can be obtained from the Microsoft web site.

Take care to ensure that you include your full name on the first page of your submission, the course number (IY5512), and the coursework number.

These questions are designed to test and extend your understanding of Part 0 of the course material.

1. Convert 345 (in decimal representation) to binary and hexadecimal representations.
2. Convert FD4 (in hexadecimal) to binary and decimal representations.
3. What are the advantages and disadvantages of using a compiled language by comparison with an interpreted language?
4. When referring to computer memory, what is a word? What is the difference between a word for a 32-bit and a 64-bit machine?
5. What is the maximum usable amount of main memory (in principle) for a 32-bit machine?