**QTM401 Microprocessors and Applications**

* **Week 06:**

\* Programming concepts (in C).  
\* Working with Geanie as Integrated Development Environment on the Raspberry Pi.  
\* Writing and executing your first C program.

\* Installation of the Code::Blocks programming environment at home.

* [[](http://learn.solent.ac.uk/mod/resource/view.php?id=609485)Week 7 notesFile](http://learn.solent.ac.uk/mod/resource/view.php?id=609485)
* **Enrichment week task:** Install a C-IDE of your choice on your home computer and compile and execute your first C program.

**Enrichment week task:** Find all reserved keywords of the programming language C, and list them in your workshop notes with a brief description for each.   
Consider: Can you understand what each does and what it is for?

* Visit: <http://www.codeblocks.org/> for the Code::Blocks programming environment and compiler.
* [[](http://learn.solent.ac.uk/mod/resource/view.php?id=609488)myFirstCProgram.cFile](http://learn.solent.ac.uk/mod/resource/view.php?id=609488)
* [[](http://learn.solent.ac.uk/mod/resource/view.php?id=609489)myFirstCProgram.c.pdfFile](http://learn.solent.ac.uk/mod/resource/view.php?id=609489)
* [C programming online tutorialURL](http://learn.solent.ac.uk/mod/url/view.php?id=609490)
* **Week 07:**

\* Programming concepts (in C); grouping of C language keywords.  
\* main(), printf(), getchar()  
\* variable declaration: int myCounter;  
\* increment: myCounter = myCounter + 1;  
\* printf formatting with \n and \t  
\* printf with %d placeholder (one and multiple)  
\* for-loop  
\* myCounter\*myCounter  
\* **TASK:** What is the biggest integer number (int) that can be displayed?