**DT228/2 and DT282/2 Operating systems 2**

**Lab Test 1**

Clearly write your **name** and **student number** on a word document called labtest1.doc.

Using Putty to connect to Linux server (147.252.234.34) complete the following lab test.

First Set up the Putty console so that the *Default background colour is white*; the *default foreground colour is black* -. This makes the screen shots clearer in a work document.

Using the vi editor and linux **gcc** compiler do the following:

1: download and run the **labTest.c** program. It should produce a three warnings.

Run and test the program without fixing the warnings. Copy screen shots to the word document.(if necessary use clear to clear the screen) **(5 marks)**

Fix *each* of the warning **one at a time**  ; thoroughly run and test the program to make sure it is working as you expect after fixing each warning. Copy screen shots of the different executions and the code you changed. **(25 marks)**

Explain in detail – referring to the contents and the address of the various variables. Why the version, after each warning was fixed gave the result, output, it did; after each warning was fixed and why it did not work as a stack program without any warnings **(60 marks)**

Modify the code so that the first data item to be added to queue is input via the command line: do not forget to error check **(10 marks)**

You are only allowed use your notes, webcourses.

The screen shots of the code and execution of the program must be insert into a document called LabTest\_1.

Do not forget to clearly *print your name* on the document and ensure the screen shots are readable in the document.

The *labtest\_1 word* document must be emailed to submitted via webcourses or if necessary emailed to: [denis.manley@dit.ie](mailto:denis.manley@dit.ie) or.