





ASSESSMENT BRIEF 2012/2013

lass:	Pre-Degree Computing (2012/2013)
itle o	of Component: Computer Programming - C20013
Assess	sment Technique: Assignment
	nting %: 30
eache	er's Name: Colm Sloan
Title:	Console Hangman
	The code for the program must be emailed from the student account of the student being accessed to the email account of the teacher. They must also submit a hard copy of the program. They must also undergo an
	interview about the submitted code to judge their understanding of the code.
Asse	essment Criteria:
	The submission of a program meets the assignment specification including well commented code and effective.

- Completed assessments must only be submitted to the relevant subject teacher during class time or any other
 arrangements must be identified in the assignment brief. In the event of the teacher being absent on the
 submission date students should hold their assessment until the next class contact period with the teacher.
- In using the college IT system for completing assessments students must use the network account they have been assigned. In keeping with good IT practice, students are strongly advised to keep a backup copy of all assessment work on a USB memory stick. <u>Under no circumstances, should any assessment work be stored on the hard disk in the pc in the computer rooms. This is public space and therefore not secure.</u>
- Assessment evidence must be submitted in a format that is compatible with the college IT system.
- \bullet Assessments must not be submitted using poly-pockets.
- A completed "Submission of Assessment Form" must be placed at the front of each assessment certifying that the work presented is your own unaided work.

Assessment Malpractice: All work submitted for marking must be the students own work. Submitting another person's work or copying from the internet, for example, and presenting it as your own is assessment malpractice. This is regarded as a serious breach of the Code of Behaviour and may result in zero marks being awarded.

Appeal: Upon receipt of feedback on the submitted work you may appeal the grade awarded by completing the appeal form and submitting it to the Deputy Principal.

Programming in C Assignment

Deadline: 05-03-2013 before 9:00pm

Marking Schedule: 90 total marks

- Clearly documented program code 15 marks
 - o what the code does AND how it does it
 - o in this case, let the comments be the documentation
- Excellent screen layout 15 marks
 - o console output should be information, neat and readable
- Effective code layout 15 marks
 - following the style guide (http://google-styleguide.googlecode.com/svn/trunk/cppguide.xml)
 - o e.g. proper indentation, spacing, brace placement etc.
- Accurate programming (syntactically and semantically) 30 marks
 - o marks for each step in the process that works
 - o try to repeat code as little as possible
 - o prefer simple solutions
 - o minimizes processing and memory requirements
- Appropriate testing 15 marks
 - Validate user input i.e. warn user for every possible mistaken input they can give e.g. too high an index, too low an index etc.

Assignment:

Hangman is a game in which a word is selected by one player, referred to as the selected word, and another player, referred to as the user, must guess that word by guessing letters that may be in the word. The user wins the game if he guesses all letters correctly before he runs out of lives. A life is lost for every time the user guesses a letter that isn't present in the selected word. The user loses the game when he runs out of lives. The rules of hangman are found here: http://en.wikipedia.org/wiki/Hangman (game)

The selected word should be chosen at random from a list of words in a file. The word being guessed should be visible in the console at all times. Letters that have not been guessed should be shown as hyphens. Correctly guessed letters should be shown as they appear in the word. For example, if the selected word is "hobbie" and the user has guessed only the letter 'b' correctly, the word displayed should appear as "--bb--". The number of lives the user has left should be visible in the console at all times too. Incorrectly guessed letters should be visible at all times. The selected word should be stored as a (c string) character array, as should the incorrectly guessed letters. The user should have three lives when the game begins.

User input should be validated. Input must not be longer than one character. Input must not be a number. All functions from the standard library can be used. Your program must include at least one function other than the main function. Use of functions is encouraged as to increase code readability.

Submission:

E-mail program code and hand in a printed copy of the code by the deadline. Each student will undergo an interview about their code to make sure they understand it. Results will be received within three weeks of submission (before 19-03-2013).