	MATAPELAJARAN: Formal Methods		MARKAH:
	TOPIK: Chapter 6	KOD: BCS2213	
	PENILAIAN: QUIZ 2	BIL: 1 MASA: 90 Minutes	

SESI 2013/2014 SEMESTER 2

NO METRIK : _____

Write a Z specification to describe the following **TWO** systems. This assignment will be evaluated in maximum 5% of your general marks (each task is maximum 2.5%).


- use CZT-IDE for development;
- please be sure you not have errors in your specifications (red circles in CZT-IDE);
- don't forget to comment your specifications;
- please submit into Moodle 2 files, having the name Quiz_2_1_<your ID> and Quiz_2_2_<your ID>.

***Task1.** A teacher wants to keep a register of students in his class, and to record which of them have completed their homework.*

<i>Register</i> _____ <i>enrolled</i> : \mathbb{P} STUDENT <i>completed</i> : \mathbb{P} STUDENT <div style="border-top: 1px solid black; padding-top: 10px;"> ... </div>
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Write a Z specification to describe the following operations:

- an operation to enroll a new student;
- an operation to record that a student (already enrolled in the class) has finished the homework;
- an operation to enquire whether a student (who must be enrolled) has finished the homework (return answer in the set {yes, no}).

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Task2. Write a Z specification to describe a simple Vocabulary System

The system should be able to:

1. Record pairs of words, where one word is a native language and the other is a foreign language.
2. Each word of a pair may serve as translation of the other.

Functions to be provided from the system:

- a pair of words may be added to the vocabulary;
- a pair of words may be deleted from the vocabulary;
- all translations of a native word into the foreign language may be requested;
- all translation of a foreign word into the native language may be requested.