Swinburne University Of Technology

Faculty of Information and Communication Technologies

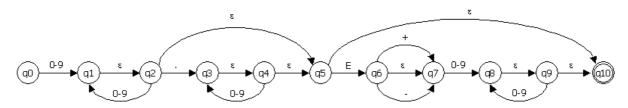
ASSIGNMENT COVER SHEET

Subject Code:	COS30023 Languages in Software Development 4, Automata September 8, 2014, 10:30, on paper Dr. Markus Lumpe	
Subject Title:		
Assignment number and title:		
Due date:		
Lecturer:		
Your name:	_	
Problem	Marks	Obtained
Problem 3	100	Obtained
		Obtained
Problem 3	100	Obtained

Problem Set 4: Automata

Problem 1

Consider the following automaton:



- Build the equation set for the states.
- Solve the equation set for q₀.
- Represent the result as regular expression.
- What type of token (aka terminal symbol) does this automaton accept?

Please note, the symbol ε stands for "can move without consuming any input." The alphabet of this automaton is $\Sigma = \{0,1,2,3,4,5,6,7,8,9,E,+,-,.\}$. Only q10 is an accepting state.

Submission deadline: Monday, September 8, 2014, 10:30. Submission procedure: on paper.