

Assignment 9

Automata & Theory of Computation

Student ID:

Name:

1. Determine whether or not the following languages are regular and explain why:

(1) $L = \{a^n b^k c^n : n \geq 0, k \geq n\}.$

(2) $L = \{a^n b^l a^k : k \leq n + l\}.$

(3) $L = \{ww : w \in \{a, b\}^*\}.$