University of Moratuwa, Sri Lanka
Faculty of Engineering

Department of Computer Science & Engineering B.Sc. Engineering Honours Degree

CS3062 Theory of Computing (2 credits)

Semester 5, 15 Batch

Assignment 2 - part 2(Worth: 2%, Due: 29/05/2018 at 11:55PM)

Upload a zip file to the Moodle LMS

---

1. Construct a non-deterministic PDA (NPDA) for the language.
   $L = \{a^i b^j c^k \mid i = j \text{ or } j = k\}$

2. Draw the transition diagram for a Turing machine accepting the language
   $L = \{a^i b^j \mid i<j\}$

How and What to Submit:

Create a PDF file containing your answers and name it with your Registration Number. For e.g., if it is 150041X, then the PDF to be named as "150041X.pdf". Then upload it to the Moodle LMS at specified location by the deadline.

Note about Assignments and Submissions (extracted from Course Outline)

You are expected to write your answers yourself in assignment. Plagiarism, copying another person's work, letting another person copy your work, are all strictly not allowed. Any student caught in any of these will receive a failing grade regardless of marks earned on other assessed work. Each assignment will have a deadline for submission. For each late day beyond a deadline, 10% of marks will be deducted.