

# Assignment#2

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1. Design Turing machines for the following languages:
  - a)  $L = \{a^i b^j c^k \mid \text{where: } i * j = k \text{ and } i, j, k \geq 1\}$
  - b)  $L = \{w \mid w \text{ is binary string and number of '0's and '1's is equal}\}$
  - c)  $T = \{ww^R \mid w \text{ is a binary string}\}$

*Hints: Algorithms and Implementation strategy is discussed in the lecture slide.*

Assignment submission guideline:

- ✓ Draw the diagrams in a white paper and write your ID on the top of the first page.
- ✓ Take pictures of your diagrams.
- ✓ Convert it into 'pdf' format.
- ✓ Use your ID as the name of the pdf file.
- ✓ Make sure your diagrams are clear and the picture is readable.

**Best of Luck**