HW #2

San José State University
Department of Computer Science

Prof.: Ahmad Yazdankhah
ahmad.yazdankhah@sjsu.edu

CS 154: Formal Languages and Computability
Fall 2019

Problem (40 Points)

Given $L = \{a^n b : n \geq 0\}$ over $\Sigma = \{a, b\}$.

Design an NFA with no more than 3 states to accept L' where $L' = L \cup \{\lambda\}$

What to Submit

1. Solve the problem using the provided JFLAP in the Canvas
2. Save it as: First_Name.Last_Name.**List_Num**.jff
   If your first or last name has more than one part, **hyphenate** them and don't use underscore. (e.g.: ahmad.yazdan-khah.1.jff)
   Also note that **my fake list number** is written as '1', not '01'.
3. Upload it in the Canvas before the due time.

Rubrics

- I'll test your code with 20 random strings. You'll get +2 for every success pass.
- You'll get **-5 for wrong filename**!

General Hints

1. **Always read the requirements at least 10 times!**
   An inaccurate software engineer is unacceptable!
2. For **late submission policy**, please refer to the greensheet.
   Absolutely no excuse will be accepted.
3. After submitting your work, **always download** it and check whether the process of submission was fine.
4. This is an **individual assignment**. Therefore, exchanging idea is OK but **sharing the answer is NOK**!
5. We are using **JFLAP7.1** and it is NOT compatible with other versions such as JFLAP 7.0 or 8.
6. You can **submit multiple times** and I'll consider the latest one. Note that Canvas adds a number at the end of your file name in the case of multiple-submission.
   I do NOT consider that number as the file name.
7. If there is any **question**, **ambiguity**, or **concern**, please **open a discussion** in the Canvas.