Assignment 1 Question 3

3.a)

- aabaab
- aabaabaab
- abaab
- ab
- aab

3.b)

Words this NFA can accept can be defined as follows:

ab|(aab)\*

- 1. Words can be started with 'ab' and from which we can move to final state.
- 2. Or words can be started with 'aab' from which we can move to final state.
- 3. This NFA shows NLP is an infinite language as words accepted can be in loop at the end eg. 'aabaabaabaabaabaabaabaab.....'.

3.c)

Regex is ab | (aab)\*

3.d)

Please turn over to next page.



