Assignment 2

1.

a.

Given the FSA, the accepted strings are:

* Ab
* Abab
* ababab
* Aab
* Aababaab

Look at the accepted strings, the language must end with the term ab or aab and starts with a.

Hence, the regular expression is (ab + aab) (ab + aab)\*

b.

Given the NFSA, the accepted strings are:

* Ab
* Abab
* Aba
* Abaab
* Abaaba
* Abaabab
* Abaabaaba

Look at the accepted strings, the language must end with the term ab or ba and starts with a.

* Hence, the regular expression is (ab + aba) (ab + aba)\*

2. Compute bigram probabilities