

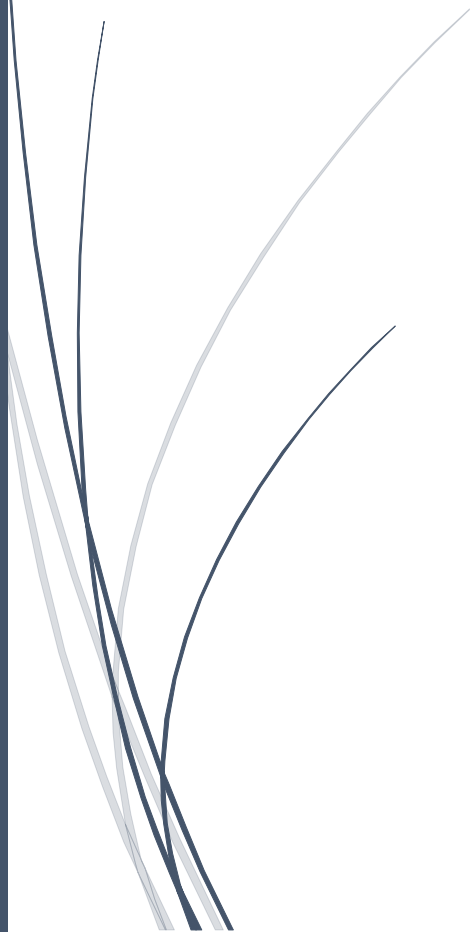
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11/22/2020

# Assignment 1

COMP314 - 2020

GROUP P

Several thin, curved lines in dark blue and light grey originate from the bottom left and sweep upwards and to the right.

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Talha Vawda	218023210
Khulekani Mfeka	217003934
Adin Arumugam	214540248

We split into two pairs to do the assignment – Divya and Talha, who were responsible for doing the DFA class (creating a DFA from an NFA using Subset Construction), and Adin and Khulekani, who were responsible for testing (Reading in the text file and determining for each test string if the DFA should accept it or not).

This project was developed using Java JDK 13 and Java Language level 8 (JDK 1.8).

## Divya and Talha

### Divya

- Did the *Dfa* class
  - Did the *epsilonClosure()*, *move()*, and *makeDfa()* methods
- Did comments and bug fixing

### Talha

- Created the files and did the design of the classes
- Did the *DfaState* class
- Did the *Dfa* class
  - Did the fields, constructor and *makeDfa()*, *getAlphabet()*, *getSigmaLowerAndUpper()* methods
- Did comments and bug fixing

## Adin and Khulekani

### Adin

- Did the *DfaAcceptor* class (the *accept()* method)

### Khulekani

- Did the *RunAssignment* class (the *main()* method)

The testing of the program was done via the provided input test file – *TestData.txt*