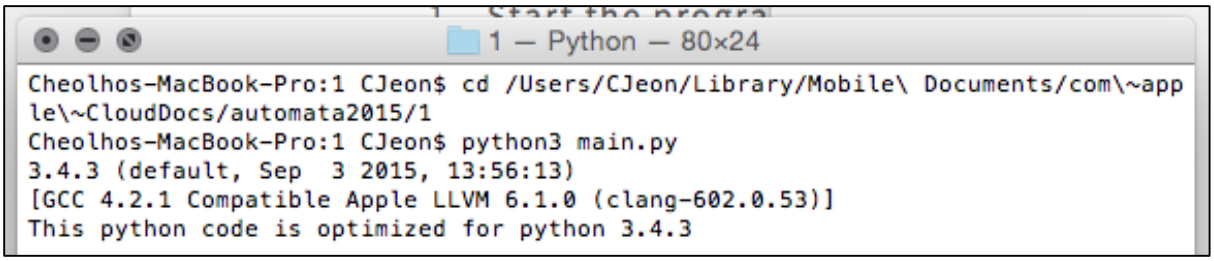
README 20130570 전철호

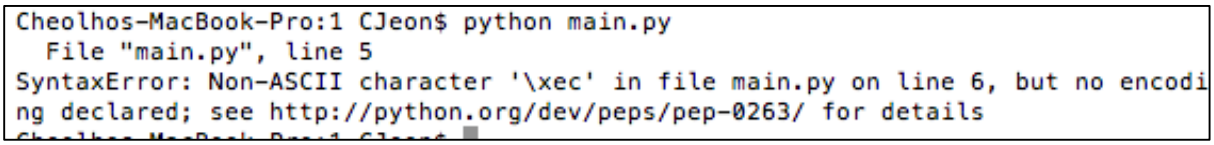
제출물: 소스코드, 실행가능파일, 간단한 메뉴얼

소스코드: Please refer to main.py. It is within the zip file I attached, or you can clone it from https://github.com/adobecs5/automata2015/tree/master/1
실행가능파일: please refer to main.py
(how to execute: regardless of OS, open your terminal and type “python3 main.py”)
(This code needs python3 to run. It is coded with python 3.4.3)
간단한 메뉴얼:

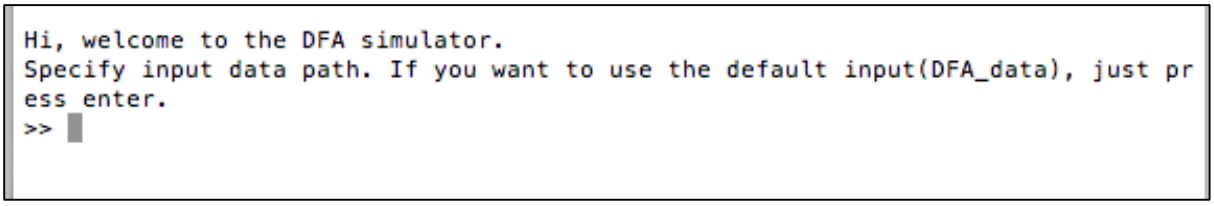
1. **Start the program by typing “python3 main.py” on the directory you downloaded the files.**



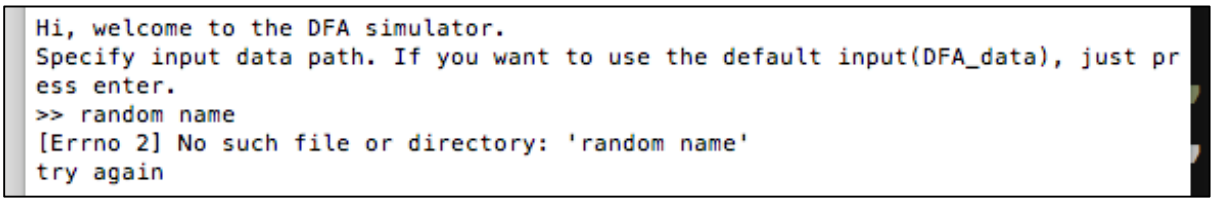

This will automatically print the python version you are on.
If you run this code on python2, you will see the error below



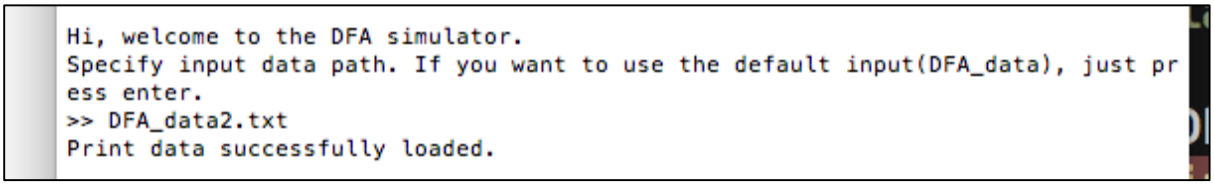

2. **After successfully running the file, you will be asked to provide a datapath for DFA data.**




You could either provide your own datapath or choose to use provided test input.
Provided tests are in txt formats.
If you input wrong filenames, below error will occur.




if you input correct filename, below will be printed.



3. **After successfully loading the data, you will be asked to provide an initial state.**

```
Please specify the initial state(optional), and the language to be tested.
initial state is:
```

You can just press enter. If you give empty string as input, the program will use predefined start state as initial state.

```
Please specify the initial state(optional), and the language to be tested.
initial state is:
language is: 1111
last state is S1
네
```

Or you can provide your own initial state.

```
Please specify the initial state(optional), and the language to be tested.
initial state is: S0
language is: 1111
last state is S1
네
```

If you provide undefined initial state, you will see the below error message.

```
Please specify the initial state(optional), and the language to be tested.
initial state is: random_state
language is: 1111
Exception occurred. ('Undefined state', 'random_state', 'defined states are', ['
S0', 'S1', 'S2', 'S3', 'S4'])
```

You can also set your own initial state.

```
Please specify the initial state(optional), and the language to be tested.
initial state is: S0
language is: 1111
last state is S1
네
```

4. **After giving initial state, you will be asked to provide a language to be processed. You can give empty string as an input, which will return the initial state.**

```
Please specify the initial state(optional), and the language to be tested.
initial state is: S0
language is:
last state is S0
아 니 요
```

If you give undefined language, the program will return following error

```
Please specify the initial state(optional), and the language to be tested.
initial state is: S0
language is: random_input
Exception occurred. ('string is not a language', 'random_input', 'Allowed alphab
ets are', ['1', '2', '3', '4'])
```

If you provide correct input, the program will execute as follows.

```
Please specify the initial state(optional), and the language to be tested.
initial state is: S0
language is: 123123123
last state is S3
네
```

```
Please specify the initial state(optional), and the language to be tested.
initial state is: S0
language is:
last state is S0
아 니 요
```

It prints the last state and prints “네” or “아니오” depending on the execution results.

To terminate the program, raise keyboard interrupt in your own terminal.
Thanks for reading so far.