CPSC 535 Project 2 Documentation

This documentation contains 5 parts:
1 Group member info
2 Group info screenshot
3 Code execution screenshot
4 Instruction of execution

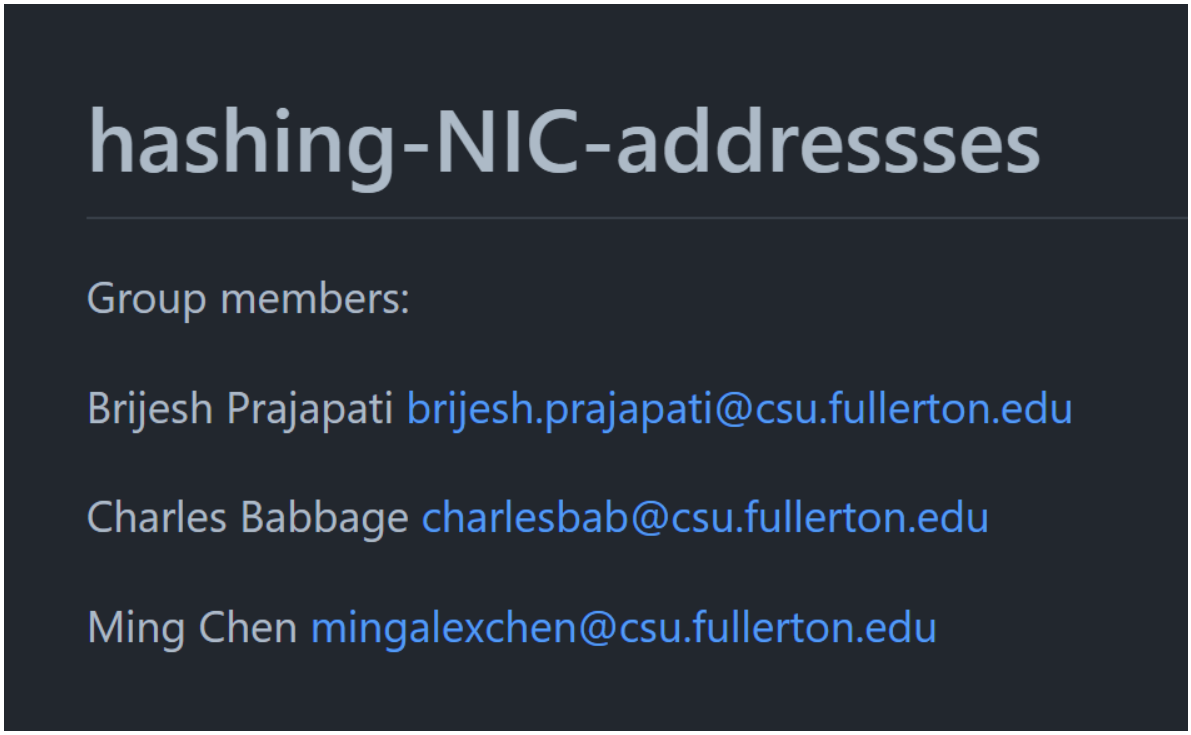
1. Your names, CSUF-supplied email address(es), and an indication that the submission is for project 2.

Brijesh Prajapati brijesh.prajapati@csu.fullerton.edu

Charles Babbage charlesbab@csu.fullerton.edu

Ming Chen mingalexchen@csu.fullerton.edu

2. A full-screen screenshot with your group member names shown clearly. One way to make your names appear in Atom is to simply open your README.md.



3. A full-screen snapshot of the code execution that follows the output given as example

output

```
Successfully opened file in1.txt
Successfully opened file in2.txt
Successfully opened file in2.txt
hash function 1 on item 123456 returns 1: passed, score 1/1
hash function 2 on item 123456 returns 2: passed, score 1/1
hash function 3 on item 123456 returns 3: passed, score 1/1
hash function 4 on item 123456 returns 4: passed, score 1/1
hash function 5 on item 123456 returns 5: passed, score 1/1
hash function 6 on item 123456 returns 6: passed, score 1/1
hash function 1 on item 6789AB returns 6: passed, score 1/1
hash function 2 on item 6789AB returns 7: passed, score 1/1
hash function 3 on item 6789AB returns 8: passed, score 1/1
hash function 4 on item 6789AB returns 9: passed, score 1/1
hash function 5 on item 6789AB returns 10: passed, score 1/1
hash function 6 on item 6789AB returns 11: passed, score 1/1
New network. Size is 2 after adding two NICs: Velocity sensor 123456 and Particle sensor 234567: passed, score 1/1
New network. Size is 30 after reading in1.txt: passed, score 1/1
BestHashing() for in1.txt returns 2: passed, score 1/1
New network. Size is 37 after reading in2.txt: passed, score 1/1
BestHashing() for in2.txt returns 2: passed, score 1/1
New network then read in2.txt. Then remove two NICs: 110987 and 210FED. Size becomes 35: passed, score 1/1
hash function 1: passed, score 1/1
TOTAL SCORE = 19 / 19
```

Input files

in2.txt

```
Contacting-Position-Sensor 123456
Capacitive-Non-contacting-Position-Sensor 234567
Ultrasonic-Non-contacting-Position-Sensor 345678
Proximity-Non-contacting-Position-Sensor 456789
Euro-X-Hall-Effect-Rotary-Position-Sensor 56789A
CMRS-Rotary-Position-Sensor 6789AB
CMRT-Rotary-Position-Sensor 789ABC
VLP-Linear-Position-Sensor 89ABCD
ELPM-Linear-Position-Sensor 9ABCDE
Pressure-Transducer ABCDEF
Flow-and-Level-Switch BCDEF0
Photo-Optic-Sensor  CDEF01
Strain-gauge DEF012
Level-sensor EF0123
Electric-current-sensor F01234
Humidity-sensor  543210
Proximity-sensor  43210F
Heat-sensor  3210FE
Flow-sensor  210FED
Fluid-velocity-sensor  10FEDC
Active-infrared-sensor FEDCBA
Passive-infrared-sensor EDCBA9
Limit-Switch DCBA98
Force-Sensor CBA987
Vibration-Sensor BA9876
Piezo-Sensor  A98765
Fluid-Property-Sensor  987654
Humidity-Sensor 876543
Pressure-Switch  765432
VLPSC-Linear-Position-Sensor 654321
VXP-Linear-Position-Sensor 776543
CMRK-Rotary-Position-Sensors 887654
Euro-XPD-Rotary-Position-Sensor 998765
Euro-XP-Puck-Rotary-Position-Sensor 110987
Laser-Non-contacting-Position-Sensor 221098
Eddy-Current-Non-contacting-Position-Sensor 332109
Hall-effect-non-contacting-position-sensor 443210
```

in1.txt

```
Contacting-Position-Sensor 123456
Capacitive-Non-contacting-Position-Sensor 234567
Ultrasonic-Non-contacting-Position-Sensor 345678
Proximity-Non-contacting-Position-Sensor 456789
Euro-X-Hall-Effect-Rotary-Position-Sensor 56789A
CMRS-Rotary-Position-Sensor 6789AB
CMRT-Rotary-Position-Sensor 789ABC
VLP-Linear-Position-Sensor 89ABCD
ELPM-Linear-Position-Sensor 9ABCDE
Pressure-Transducer ABCDEF
Flow-and-Level-Switch BCDEF0
Photo-Optic-Sensor  CDEF01
Strain-gauge DEF012
Level-sensor EF0123
Electric-current-sensor F01234
Humidity-sensor  543210
Proximity-sensor  43210F
Heat-sensor  3210FE
Flow-sensor  210FED
Fluid-velocity-sensor  10FEDC
Active-infrared-sensor FEDCBA
Passive-infrared-sensor EDCBA9
Limit-Switch DCBA98
Force-Sensor CBA987
Vibration-Sensor BA9876
Piezo-Sensor  A98765
Fluid-Property-Sensor  987654
Humidity-Sensor 876543
Pressure-Switch  765432
VLPSC-Linear-Position-Sensor 654321
```

4. A brief description on how to run the code and how to change the code to accept other input files.

We did not add any extra dependency or change the way to read input files. Hence using the provided way to compile should work, and changing the value in input files would work for accepting other inputs.