

WIA2005 Algorithm Design & Analysis
Semester 2, 2016/17
Lab 8

1. When submitting a test paper, students are only required to write their registration number on their paper. Create a program, that takes in the student registration number and display the name of the students.

Eg:

| | |
|-----------|-------|
| WEK130013 | Jason |
| WEK130020 | Billy |
| WEK130025 | Kim |

Apart from displaying the name when given the registration number, the program shall also be able to do the following:

- a) Add new student (rehash if required).
 - b) Delete existing student.
 - c) Print out the list.
2. Write a program, that takes in a text file and calculate the frequency of each word using hash table. Create a text file for the following as your input:

input.txt

Hey diddle diddle
The cat and the fiddle
The cow jumped over the moon
The little dog laughed
To see such sport
And the dish ran away with the spoon.

The output should look like this:

hey - 1
diddle - 2
the - 7
...