## Lab # 6 Takahiro Mitsuhashi 100308877

CPSC 1150 - 003 Instructor:
H. Darbandi Lab Title:
Practice with Top-down
design, Pseudo code, and
methods

Formula Lab Date submitted:June 25th Department: CSIS

Program Lab5 File Name: Lab6.java Purpose:To get the binary numbers of message with cipher key of integer number which is typed by keyboard.

Technical Information: (You should fill the following information based on compiler and computer you are using). Compiler:Java SDk version 10.0.1

Computer: something like ::Intel(R)Core(™)i5-6300U CPU 2.40GHz 2.50GHz .4.00GB

Operating System: 64-bit Operating System,x64-based processor(Windows10) Language: Java

Program Logic (Pseudocode) Algorithm: read the message of String as every single character to convert String to binary. when getting the ASCII code, pass the method of converter then we can get the binary numbers.

## START:

1.

set num(for key), numOfstring(for the amount of string)←int set message, temp←string

2.

get the number of key by Scanner num←in.nextInt()

3.

get the binary by method in for loop binary ← Integer.toBinaryString(n) 4.

Shift to another string by key numOfstring←(int)message.charAt(i)+num Add the binary by for loop

5.

PRINT temp after for loop

6

PRINT the message by each line up to down

Generate your test cases based on the specifications in your lab assignment. Follow following format for each test case:

Test case1:
message="AB C"
key = 4
(message is converting to "EF G")
output of binary: 01000101000110010000001111
<valid>

Test case2:

message="cpsc1150 ? Is my course!"

key = 8

output of binary:

<valid>