**External Documentation for CPSC 1150 – W05 Lab 3**

**Program:** Display the day of a week

File Name: DisplayDayOfWeek.java

Purpose: Displaying the day of a week depending on user input

Input: integer between 0 and 6

Output: today’s day

**Algorithm**

Displaying the day of a week

START

1. Get integer from 0 to 6
2. Get today’s date using switch statement
3. Display result

END

**Sample Input and Output**

Enter an integer between 0 and 6 : 5

Saturday

Enter an integer between 0 and 6 : -1

Invalid Input!

Enter an integer between 0 and 6 : 7

Invalid Input!

**Program:** Phone Key Pads

File Name: PhoneKeyPads.java

Purpose: Checking which letter is on which number key

Input: Alphabet letter

Output: number key where letter is on

**Algorithm**

Checking phone keypads

START

1. Get an alphabet (lowercase or uppercase)
2. Use switch statement to assign a number key from a to z.
3. Display the result

END

**Sample Input and Output**

Enter a letter(Uppercase or Lowercase) : A

A is on number key 2

Enter a letter(Uppercase or Lowercase) : )

) is an invalid input

**Program:** Find the number of days in a month

File Name: DaysInMonth.java

Purpose: To find how many days are in a month in specific year

Input: year and month

Output: how many days are in the month (+ if it is a leap year or not)

**Algorithm**

Finding how many days are in a month

START

1. Get a month and year from user
2. Assign corresponding number of days for each month using switch
3. Design a Boolean expression calculating for a leap year
4. Use a switch method again for February to use the Boolean expression in step 3 to find out if given year is a leap year and assign results for each ifs.
5. Display result

END

**Sample Input and Output**

Enter the year : 1999

Enter the month (lower case) : february

1999 is not a leap year. Month of february has 28 days in this year.

Enter the year : 2020

Enter the month (lower case) : february

2020 is a leap year. Month of february has 29 days in this year.

Enter the year : 2041

Enter the month (lower case) : ZEBRA

not a valid input