Lab 4 External Documentation   
CPSC 1150 – W02

**Program** Display day of week

**File Name:** DisplayDayOfWeek.java

**Purpose:** Input interger from 0 to 6, and return Sunday to Saturday.

**Input:** Integer from 0 to 6.

**Output:** String - day of week

**Algorithm:**

BEGIN

1. Input dayNumber.
2. Switch case from 0 to 6, print Sunday to Saturday, default invalid inut.

END.

**Sample input and output:**

Enter day number: 0

Sunday

Enter day number: 6

Saturday

**Program** Phone key pads

**File Name:** PhoneKeyPads.java

**Purpose:** Input a letter, return number on phone key pad

**Input:** Any letter, both lowercase and uppercase

**Output:** Int – position of the letter on phone key pad

**Algorithm:**

BEGIN

1. Input letter.
2. Set the letter lowercase to lowercaseLetter
3. Switch case of lowercaseLetter, set the position.
4. Print letter and the position

END.

**Sample input and output:**

Enter a letter (uppercase or lowercase): A

The letter A is on the number key 2

Enter a letter (uppercase or lowercase): l

The letter l is on the number key 5

**Program** Days in month

**File Name:** DaysInMonth.java

**Purpose:** Input a month number and a year, return days number in that month

**Input:** Integer – month and year

**Output:** Integer – number of days in that month

**Algorithm:**

BEGIN

1. Input month and year.
2. Switch case month, if month is 2 then check leap year. Set monthName and daysInMonth
3. Print monthName and daysInMonth

END.

checkLeapYear BEGIN

1. If year%4==0 then continue step 2, else return false.
2. If year%100==0 then continue step 3, else return true.
3. If year%400==0 then return true, else return false.

END.

**Sample input and output:**

Enter a month (1-12): 2

Enter a year: 2020

There are 29 days in February, 2020

Enter a month (1-12): 12

Enter a year: 2022

There are 31 days in December, 2022