PHASE 2, PROGRAM B PSEUDOCODE DESIGN

Course: CMP_SCI 4500-001

Group Number: 10

People Working on Program: Elroi Belete, Samuel Irvine, Mary Lorenz, Tony Matthews (alphabetical order – last names)

Revision History:

1. 10/10/2024 – Document creation
2. 10/16/2024 – Compressed to two pages

Pseudocode Design

Purpose: To generate a report based on minutes spent on each activity code from a valid time log file.

```
BEGIN

        DISPLAY program introduction

        PROMPT user to continue

        PROMPT user to enter lastname, firstname

        READ lastname, firstname

        CONCATENATE logFileName as lastname + firstname + 'Log.csv'

        IF logFileName does not exist THEN

                DISPLAY error message

                EXIT program

        END IF

        OPEN logFileName

                IF logfile empty THEN

                DISPLAY error message

                EXIT program

        END IF

        READ first line

        IF first line is invalid or missing THEN

                DISPLAY error message

                EXIT program

        END IF

        READ second line

        IF second line is invalid or missing THEN

                DISPLAY error message

                EXIT program

        END IF
```

INITIALIZE 'activityMinutes' as a map

PROCESS each entry in the logfile

WHILE there are lines in the logfile

      READ the current line

      SPLIT by date, startTime, endTime, numPeople, activityCode, optionalNote

      IF date, time, startTime, endTime, numPeople, activityCode, optionalNote is missing or invalid THEN

      DISPLAY error message

      CONTINUE to next line

      CALCULATE startTime minutes, endTime minutes

      ADD minutes to activityMinutes for activityCode

END WHILE

CLOSE logfile

OPEN reportFile as lastname, firstname, 'LogReport.txt'

WRITE firstname, lastname to reportFile

WRITE Class: CS 4500 to reportFile

FOR every activityCode in activityDescriptions

      IF activityMinutes[activityCode] exists THEN

            WRITE activityCode, totalMinutes, description to reportFile

      END IF

      ELSE

            WRITE activityCode with 0000 minutes to reportFile

      END ELSE

END FOR

DISPLAY report to console

DISPLAY completion message

CLOSE reportFile

EXIT program

END