```
'''
          __                          __
         /'{>                        /'{>
      ____) (____                 ____) (____
    //'--;   ;--'\\             //'--;   ;--'\\
   ///////\_/\\\\\\\           ///////\_/\\\\\\\
          m m                         m m

*****************************************************************
*                                                               *
*  EEET-418                                                     *
*  27 April 2022                                                *
*  Senior Project: Smart package Delivery Box                   *
*                                                               *
*  The purpose of this program is to act as the keypad.py       *
*  file for the SPDB project. It is intended to be imported     *
*  into the main program.                                       *
*                                                               *
*  Created by: Brandon Empie & Angel Crim                       *
*                                                               *
*****************************************************************
'''

import RPi.GPIO as GPIO
import time
C1 = 26
C2 = 19
C3 = 13
C4 = 6
R1 = 21
R2 = 20
R3 = 16
R4 = 12

class glo:
    pinSequence = ""
    masterPin = "8 6 7 5 "
    markedFull = "# A "

GPIO.setwarnings(False)
GPIO.setmode(GPIO.BCM)
GPIO.setup(C1, GPIO.OUT)
GPIO.setup(C2, GPIO.OUT)
GPIO.setup(C3, GPIO.OUT)
GPIO.setup(C4, GPIO.OUT)
GPIO.setup(R1, GPIO.IN, pull_up_down=GPIO.PUD_DOWN)
GPIO.setup(R2, GPIO.IN, pull_up_down=GPIO.PUD_DOWN)
GPIO.setup(R3, GPIO.IN, pull_up_down=GPIO.PUD_DOWN)
GPIO.setup(R4, GPIO.IN, pull_up_down=GPIO.PUD_DOWN)


def readC1():
    GPIO.output(C1, 1)
    if(GPIO.input(R1)):
       glo.pinSequence += "1 "
    if(GPIO.input(R2)):
       glo.pinSequence += "4 "
    if(GPIO.input(R3)):
       glo.pinSequence += "7 "
    if(GPIO.input(R4)):
       glo.pinSequence += "* "
    GPIO.output(C1, 0)
    time.sleep(.1)
    return
def readC2():
    GPIO.output(C2, 1)
    if(GPIO.input(R1)):
       glo.pinSequence += "2 "
    if(GPIO.input(R2)):
       glo.pinSequence += "5 "
    if(GPIO.input(R3)):
       glo.pinSequence += "8 "
    if(GPIO.input(R4)):
       glo.pinSequence += "0 "
    GPIO.output(C2, 0)
    time.sleep(.1)
    return
def readC3():
    GPIO.output(C3, 1)
    if(GPIO.input(R1)):
       glo.pinSequence += "3 "
    if(GPIO.input(R2)):
       glo.pinSequence += "6 "
    if(GPIO.input(R3)):
```

```
            glo.pinSequence += "9 "
        if(GPIO.input(R4)):
            glo.pinSequence += "# "
        GPIO.output(C3, 0)
        time.sleep(.1)
        return
    def readC4():
        GPIO.output(C4, 1)
        if(GPIO.input(R1)):
            glo.pinSequence += "A "
        if(GPIO.input(R2)):
            glo.pinSequence += "B "
        if(GPIO.input(R3)):
            glo.pinSequence += "C "
        if(GPIO.input(R4)):
            glo.pinSequence += "D "
        GPIO.output(C4, 0)
        time.sleep(.1)
        return
```