

```

1  '''
2      /'{}>
3      /'{}>
4      /'{}>
5      /'{}>
6      /'{}>
7
8  *****
9  *
10 * EET-418
11 * 27 April 2022
12 * Senior Project: Smart package Delivery Box
13 *
14 * The purpose of this program is to act as the keypad.py
15 * file for the SPDB project. It is intended to be imported
16 * into the main program.
17 *
18 * Created by: Brandon Empie & Angel Crim
19 *
20 *****
21 '''
22
23 import RPi.GPIO as GPIO
24 import time
25 C1 = 26
26 C2 = 19
27 C3 = 13
28 C4 = 6
29 R1 = 21
30 R2 = 20
31 R3 = 16
32 R4 = 12
33
34 class glo:
35     pinSequence = ""
36     masterPin = "8 6 7 5 "
37     markedFull = "# A "
38
39 GPIO.setwarnings(False)
40 GPIO.setmode(GPIO.BCM)
41 GPIO.setup(C1, GPIO.OUT)
42 GPIO.setup(C2, GPIO.OUT)
43 GPIO.setup(C3, GPIO.OUT)
44 GPIO.setup(C4, GPIO.OUT)
45 GPIO.setup(R1, GPIO.IN, pull_up_down=GPIO.PUD_DOWN)
46 GPIO.setup(R2, GPIO.IN, pull_up_down=GPIO.PUD_DOWN)
47 GPIO.setup(R3, GPIO.IN, pull_up_down=GPIO.PUD_DOWN)
48 GPIO.setup(R4, GPIO.IN, pull_up_down=GPIO.PUD_DOWN)
49
50
51 def readC1():
52     GPIO.output(C1, 1)
53     if(GPIO.input(R1)):
54         glo.pinSequence += "1 "
55     if(GPIO.input(R2)):
56         glo.pinSequence += "4 "
57     if(GPIO.input(R3)):
58         glo.pinSequence += "7 "
59     if(GPIO.input(R4)):
60         glo.pinSequence += "*" "
61     GPIO.output(C1, 0)
62     time.sleep(.1)
63     return
64
65 def readC2():
66     GPIO.output(C2, 1)
67     if(GPIO.input(R1)):
68         glo.pinSequence += "2 "
69     if(GPIO.input(R2)):
70         glo.pinSequence += "5 "
71     if(GPIO.input(R3)):
72         glo.pinSequence += "8 "
73     if(GPIO.input(R4)):
74         glo.pinSequence += "0 "
75     GPIO.output(C2, 0)
76     time.sleep(.1)
77     return
78
79 def readC3():
80     GPIO.output(C3, 1)
81     if(GPIO.input(R1)):
82         glo.pinSequence += "3 "
83     if(GPIO.input(R2)):
84         glo.pinSequence += "6 "
85     if(GPIO.input(R3)):

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84         glo.pinSequence += "9 "
85     if(GPIO.input(R4)):
86         glo.pinSequence += "# "
87     GPIO.output(C3, 0)
88     time.sleep(.1)
89     return
90 def readC4():
91     GPIO.output(C4, 1)
92     if(GPIO.input(R1)):
93         glo.pinSequence += "A "
94     if(GPIO.input(R2)):
95         glo.pinSequence += "B "
96     if(GPIO.input(R3)):
97         glo.pinSequence += "C "
98     if(GPIO.input(R4)):
99         glo.pinSequence += "D "
100     GPIO.output(C4, 0)
101     time.sleep(.1)
102     return
103
104
105
```