```
1 'Youghert #3
1 '(SERNIC 2.5)
5 '(SERNIC 2.5)
5 'pbl-4 is used to stores presses for each button
6 pbl VAR Nih
8 pb3 VAR Nih
9 pb3 VAR Nih
10 'pbnuml-4 is the code for the gate
11 pbnum VAR Nib
12 pb2num VAR Nib
13 pb3num VAR Nib
14 pb4num VAR Nib
14 pb4num VAR Nib
15 pb3num VAR Nib
16 pbnuml-4 is the code for the gate
17 'Very press is counted and added via GOSUB pressesadd
18 totalpresses VAR Nib
19 'Used to reduce repition of HIGH & LOW
17 'Very press is counted and added via GOSUB pressesadd
18 totalpresses VAR Nib
19 'Used to reduce repition of HIGH & LOW
10 Redloop VAR Nib
12 'Vellowloop VAR Nib
12 'Vellowloop VAR Nib
12 'Vellowloop VAR Nib
13 'VERD FOR NEXT
13 counter VAR Word
14 'Fin Directives for LEDs
15 Red Pin 15
16 'Vellow PIN 14
17 Green PIN 13
19 'PUSBUGIN SEC pbnum
19 'PUSBUGIN DEC pbnum
19 'PUSBUGI
```

```
64 PAUSE 100
65 GOSUB Emergency
66 ENDIF
67 IF (IN1=1) THEN
68 PAUSE 100
69 pb1=1
70 'DEBUG CLS, ? pb1
71 GOSUB pressesadd
72 GOSUB PBladd
73 ENDIF
73 ENDIF
 72 GOSUS FERENCE
73 ENDIF
74 IF (INZ=1) OR (IN3=1) OR (IN4=1) THEN
75 PAUSE 100
76 GOSUB pressesadd
77 ENDIF
78 NEXT
79
79
80
81 PBladd:
82 IF (totalpresses = pbnumtotal) AND (pbl >< pblnum) THEN GOSUB youfdup
83 IF (pbl=pblnum) THEN GOSUB PB2add
84 IF (totalpresses = pbnumtotal) AND (pbl >< pblnum) THEN GOSUB youfdup
85 FOR counter = 0 TO 65535
86 IF (IND=1) THEN
87 PAUSE 100
88 GOSUB Emergency
89 ENDIF
90 IF (IN1=1) THEN
91 PAUSE 100
92 pbl=pbl+1
93 'DEBUG ? pbl
94 GOSUB pressesadd
95 GOSUB PBladd
95 ENDIF
96 ENDIF
93 * OBBUG ? pb1

94 GOSUB Pressesadd

95 GOSUB Pressesadd

96 ENDIF

97 IF (IN2=1) OR (IN3=1) OR (IN4=1) THEN

98 PAUSE 100

99 GOSUB pressesadd

100 ENDIF

101 NEXT

102 RETURN

103

104 PB2add:
105 IF (totalpresses = pbnumtotal) AND (pb1 >< pblnum) THEN GOSUB youfdup

106 IF (pb2=pb2num) THEN GOSUB PB3add

107 IF (totalpresses = pbnumtotal) AND (pb1 >< pblnum) THEN GOSUB youfdup

108 FOR counter = 0 TO 65535

109 IF (IN0=1) THEN

110 PAUSE 100

111 GOSUB Emergency

112 ENDIF

113 IF (IN2=1) THEN

114 FAUSE 100

115 pb2=pb2+1

116 'DEBUG ? pb2

117 GOSUB PPsaadd

118 GOSUB PPsaadd

119 ENDIF

120 IF (IN1=1) OR (IN3=1) OR (IN4=1) THEN

121 FAUSE 100

122 GOSUB pressesadd

123 ENDIF

124 NEXT

125 RETURN

126

127 FB3add:

128 IF (totalpresses = pbnumtotal) THEN GOSUB youfdup
```

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```
Project 3 final.bs2

129 IF (pb3=pb3num) THEN GOSUB PB4add
130 IF (totalpresses = pbnumtotal) THEN GOSUB youfdup
131 FOR counter = 0 TO 65535

132 IF (IN0=1) THEN
133 PAUSE 100
134 GOSUB Emergency
135 ENDIF
136 IF (IN3=1) THEN
137 PAUSE 100
138 pb3=pb3+1
139 'DEBUG ? pb3
140 GOSUB pressesadd
141 GOSUB PB3add
141 GOSUB PB3add
142 ENDIF
143 IF (IN1=1) OR (IN2=1) OR (IN4=1) THEN
144 PAUSE 100
145 GOSUB pressesadd
146 ENDIF
147 NEXT
148 RETURN
149
150 PB4add:
151 IF (pb4=pb4num) THEN GOSUB Gate
152 IF (totalpresses = pbnumtotal) THEN GOSUB youfdup
153 FOR counter = 0 TO 65535
154 IF (totalpresses = pbnumtotal) THEN GOSUB youfdup
155 IF (IN0=1) THEN
156 PAUSE 100
157 GOSUB Emergency
158 ENDIF
159 IF (IN4=1) THEN
150 PAUSE 100
161 pb4=pb4+1
162 'DEBUG ? pb4
163 GOSUB PE4sadd
164 GOSUB PE4sadd
165 ENDIF
166 IF (IN1=1) OR (IN2=1) OR (IN3=1) THEN
167 PAUSE 100
102 DEBOS : DUT
103 GOSUB Pressesadd
104 GOSUB Pressesadd
104 GOSUB Pressesadd
105 ENDIF
106 IF (INI=1) OR (IN2=1) OR (IN3=1) THEN
107 PAUSE 100
108 GOSUB pressesadd
109 ENDIF
107 NEXT
101 RETURN
102
103 pressesadd:
104 IF (pb1><pblnum) OR (pb2><pblnum) OR (pb3><pblnum) OR (pb4><pblnum) OR (pb4
```

```
194 LOW Red
195 FOR counter = 1 TO 6667
196 HIGH Green
197 IF IND-1 THEN GOSUB Emergency
198 NEXT
199 LOW Green
200 GOSUB Vellowflash
201 HIGH Red
202 GOSUB Servodown
203 'DEBUG CLS
204 GOSUB Resetvar
205 ENDIF
206 GOTO Main
207 NEXT
208 RETURN
209
210 Emergency:
211 LOW Yellow
212 'DEBUG CLS, "Emergency ON"
213 FOR COUNTER = 1 TO 20
214 FULSOUT 12, 750
215 PAUSE 20
216 NEXT
217 LOW Red
218 HIGH Green
219 FOR COUNTER = 1 TO 65535
20 IF (IND-1) THEN
211 LOW Green
221 FOR COUNTER = 1 TO 20
224 PULSOUT 12, 250
225 FAUSE 20
226 NEXT
227 'DEBUG CLS, "Emergency OFF"
228 GOSUB Resetvar
239 GOSUB Resetvar
240 ENDIF
231 Red GOSUB Resetvar
241 COSUB Main
242 ENDIF (IND-1) THEN
252 GOSUB Resetvar
260 SUB Resetvar
270 GOSUB Resetvar
281 GOSUB Resetvar
291 GOSUB Resetvar
292 GOSUB Resetvar
292 GOSUB Resetvar
293 GOSUB Resetvar
294 PULSOUT 12, Redloop=0
237 LOW Red
238 PAUSE 100
239 HIGH Red
240 PAUSE 100
241 Redloop=Redloop+1
242 LOOF UNTIL Redloop=3
243 'DEBUG CLS
244 GOSUB Main
245 Resetvar:
247 totalpresses=0
248 pbl=0
249 pbl=0
249 pbl=0
249 pbl=0
249 pbl=0
249 pbl=0
249 pbl=0
250 pbl=0
251 pbd=0
252 RETURN
253
254 Yellowflash:
255 Yellowfloop=0
255 DO
257 LOW Red:HIGH Yellow
258 PAUSE 100
```

```
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259 LOW Yellow
260 PAUSE 100
261 Yellowloop=Yellowloop+1
262 LOOP UNTIL Yellowloop=10
263 Yellowloop=0
264 RETURN
265
266 Servoup:
267 FOR counter = 1 TO 20
268 PULSOUT 12, 750
269 PAUSE 20
270 NEXT
271 RETURN
272
273 Servodown:
274 FOR counter = 1 TO 20
275 PULSOUT 12, 250
276 PAUSE 20
277 NEXT
278 RETURN
279
280
281
282
283
284
```