

```

1 //*****
2 //Dr. Meanie's Project Decoder v2.4
3 //*****
4 import processing.serial.*;
5 Serial myPort;
6 PWindow win;
7
8 public void settings() {
9     size(1000, 500);
10 }
11
12 String val;
13 String a = "Hello BAD PEOPLE INC. employee #57883. Please enter the pro
14 String b = "Project HEMLOCK:";
15 String bex = "BAD PEOPLE INC. Labs is creating a highly contagious ultr
16 String bopa = ">To release the plague, press up";
17 String bopb = ">To shut down incubator, press down";
18 String co = "Project SEQUOIA:";
19 String cex = "BAD PEOPLE INC. Labs has developed a missile filled with
20 String copa = ">To launch the bat missiles, press up";
21 String copb = ">To disarm the bat missiles, press down";
22 String d = "Project CYPRESS:";
23 String dex = "BAD PEOPLE INC. Labs has bred an indestructable mutant sp
24 String dopa = ">To release mutant spiders, press up";
25 String dopb = ">To send mutant spiders to the moon, press down";
26 String e = "Project JUNIPER:";
27 String eex = "BAD PEOPLE INC. Labs has constructed and launched a satel
28 String eopa = ">To activate the satellite, press up";
29 String eopb = ">To self-destruct the satellite, press down";
30 String g = "PROJECT EVIL DOES NOT EXIST. SECURITY ALERT. SYSTEMS ARE LO
31 String gex = "Dr.Meanie: How do you like my trap, S.P.I.E.S.? Muahahaha
32 String h = "(To override system lockdown, press the POWER button.)";
33 int[] testArray = new int[11];
34 char c;
35
36 void setup(){
37     String portName = Serial.list()[1];
38     myPort = new Serial(this, portName, 9600);
39     myPort.bufferUntil('\n');
40     noStroke();
41     background(50);
42     PFont font;
43     font = loadFont("OCRAStd-12.vlw");
44     textFont(font, 12);
45     fill(100,255,60);

```

```
46 surface.setTitle("BAD PEOPLE INC. PROJECT FINDER");
47 }
48
49 void serialEvent (Serial myPort) {
50     if (myPort.available() > 0){
51         val = myPort.readStringUntil('\n');
52         //extraVal = val;
53         println(val);
54
55         if(val != null){
56             char c = val.charAt(0);
57             println("Number " + c);
58             if(c == '1'){
59                 println("Uno");
60             }
61             if(c == '2'){
62                 println("Dos");
63             }
64             if(c == '3'){
65                 println("Tres");
66             }
67             if(c == '4'){
68                 println("Cuatro");
69             }
70             if(c == '5'){
71                 println("Cinco");
72             }
73             if(c == '6'){
74                 println("Seis");
75             }
76             if(c == '7'){
77                 println("Siete");
78             }
79             if(c == '8'){
80                 println("Ocho");
81             }
82             if(c == '9'){
83                 println("Nueve");
84             }
85             if(c == '0'){
86                 println("Zilch");
87             }
88             if(c == 'E'){
89                 println("Enter");
90             }

```

```
91     if(c == 'P'){
92         println("Power");
93     }
94     if(c == 'U'){
95         println("Up");
96         win = new PWindow();
97     }
98     if(c == 'D'){
99         println("Down");
100        win = new PWindow();
101    }
102 }
103 if(val == null){
104     val = " ";
105 }
106 }
107 }
108
109 void draw(){
110 text(a,10,10,700,30);
111
112 if(val != null){
113     char c = val.charAt(0);
114     testArray[0] = 0;
115     if(c == '1'){
116         testArray[1] = 1;
117     }
118     if(c == '2'){
119         testArray[2] = 2;
120     }
121     if(c == '3'){
122         testArray[3] = 3;
123     }
124     if(c == '4'){
125         testArray[4] = 4;
126     }
127     if(c == '5'){
128         testArray[5] = 5;
129     }
130     if(c == '6'){
131         testArray[6] = 6;
132     }
133     if(c == '7'){
134         testArray[7] = 7;
135     }
```

```
136  if(c == '8'){
137      testArray[8] = 8;
138  }
139  if(c == '9'){
140      testArray[9] = 9;
141  }
142  if(c == 'E'){
143      testArray[10] = 1;
144  }
145  if(c == 'P'){
146      testArray[0] = 0;
147      testArray[1] = 0;
148      testArray[2] = 0;
149      testArray[3] = 0;
150      testArray[4] = 0;
151      testArray[5] = 0;
152      testArray[6] = 0;
153      testArray[7] = 0;
154      testArray[8] = 0;
155      testArray[9] = 0;
156      testArray[10] = 0;
157      background(50);
158      text(a,10,10,700,30);
159  }
160  if(c == 'U'){
161
162  }
163  if(c == 'D'){
164
165  }
166
167  //Juniper 0 2 3 4 5 6 7 0 0 1
168  if(testArray[1] == 0 && testArray[2] == 2 && testArray[3] == 3 && tes
169      text(e,10,50,700,30);
170      text(eex,10,80,900,700);
171      text(eopa,40,200,800,700);
172      text(eopb,40,230,800,700);
173  }
174  //Hemlock 1 2 3 4 5 0 0 0 0 1
175  else if(testArray[1] == 1 && testArray[2] == 2 && testArray[3] == 3 &
176      text(b,10,50,700,30);
177      text(bex,10,80,900,700);
178      text(bopa,40,200,800,700);
179      text(bopb,40,230,800,700);
180  }
```

```
181 //Sequoia 1 2 3 0 5 6 7 0 0 1
182 else if(testArray[1] == 1 && testArray[2] == 2 && testArray[3] == 3 &
183     text(co,10,50,700,30);
184     text(cex,10,80,900,700);
185     text(copa,40,200,800,700);
186     text(copb,40,230,800,700);
187 }
188 //Cypress 1 2 0 0 0 6 7 0 9 1
189 else if(testArray[1] == 1 && testArray[2] == 2 && testArray[3] == 0 &
190     text(d,10,50,700,30);
191     text(dex,10,80,900,700);
192     text(dopa,40,200,800,700);
193     text(dopb,40,230,800,700);
194 }
195 //Evil123 1 2 3 4 0 0 0 8 0 1
196 else if(testArray[1] == 1 && testArray[2] == 2 && testArray[3] == 3 &
197     text(g,10,50,700,30);
198     text(gex,10,120,900,700);
199     text(h,10,350,900,700);
200 }
201 else if(testArray[10]==1){
202     text("Unknown Command", 10, 200);
203     text("Press the power button to try again", 10, 220);
204 }
205 }
206
207 if(val == null){
208     val=" ";
209 }
210 printArray(testArray);
211 println();
212 }
213
214
215
216
217
218
219
220
221
222
223
224
225
```

```

1 class PWindow extends PApplet {
2     PWindow() {
3         super();
4         PApplet.runSketch(new String[] {this.getClass().getSimpleName()}, t
5     }
6
7     void settings() {
8         size(450, 300);
9     }
10
11    void setup() {
12        background(255);
13        fill(0);
14        surface.setTitle("MESSAGE FROM S.P.I.E.S. HQ");
15    }
16
17    void draw() {
18        char c = val.charAt(0);
19        if(c == 'U'){
20            text("S.P.I.E.S. H.Q.:", 10, 20);
21            text(">WHAT WERE YOU THINKING?!?!", 10, 40);
22            text(">Quick, press the power button to reset the program.", 10,
23            text(">Maybe there's enough time to change the option...", 10, 80
24            noLoop();
25        }
26        else if(c == 'D'){
27            text("S.P.I.E.S. H.Q.:", 10, 20);
28            text(">Good Job! Now Dr. Meanie is one step behind!", 10, 40);
29            text(">We still have more plots to foil, though.", 10, 60);
30            text(">Press the power button to reset and try more codes.", 10,
31            noLoop();
32        }
33        else{
34            text("S.P.I.E.S. H.Q.:", 10, 20);
35            text(">Drat! It was a fake.", 10, 40);
36            text(">You're gonna have to close out of the system...", 10, 60);
37            text(">...at least before Dr. Meanie discovers our location!", 10
38            noLoop();
39        }
40    }
41    void exit()
42    {
43        dispose();
44        win = null;
45    }

```

46 }

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90