

```

1 #define INT4_P13 3
2 #define INT3_P14 4
3 #define INT2_P15 5
4 #define INT1_P16 6
5
6 #define SW_A 8
7 #define SW_B 9
8 #define SW_F 10
9
10
11 void setup() {
12   pinMode(LED_BUILTIN, OUTPUT);
13   pinMode(INT4_P13, OUTPUT);
14   pinMode(INT3_P14, OUTPUT);
15   pinMode(INT2_P15, OUTPUT);
16   pinMode(INT1_P16, OUTPUT);
17
18   digitalWrite(INT4_P13, LOW);
19   digitalWrite(INT3_P14, LOW);
20   digitalWrite(INT2_P15, LOW);
21   digitalWrite(INT1_P16, LOW);
22
23   pinMode(SW_A, INPUT_PULLUP);
24   pinMode(SW_B, INPUT_PULLUP);
25   pinMode(SW_F, INPUT_PULLUP);
26
27 }
28
29 void fnc_stop(){
30   digitalWrite(INT4_P13, LOW);
31   digitalWrite(INT3_P14, LOW);
32   digitalWrite(INT2_P15, LOW);
33   digitalWrite(INT1_P16, LOW);
34 }
35
36 void fnc_mae(){
37   digitalWrite(INT4_P13, HIGH);
38   digitalWrite(INT3_P14, LOW);
39   digitalWrite(INT2_P15, HIGH);
40   digitalWrite(INT1_P16, LOW);
41   delay(1000);
42   digitalWrite(INT4_P13, LOW);
43   digitalWrite(INT3_P14, LOW);
44   digitalWrite(INT2_P15, LOW);
45   digitalWrite(INT1_P16, LOW);
46   delay(1000);
47 }
48
49 void fnc_usiro(){
50   digitalWrite(INT4_P13, LOW);
51   digitalWrite(INT3_P14, HIGH);
52   digitalWrite(INT2_P15, LOW);
53   digitalWrite(INT1_P16, HIGH);
54   delay(1000);
55   digitalWrite(INT4_P13, LOW);
56   digitalWrite(INT3_P14, LOW);
57   digitalWrite(INT2_P15, LOW);
58   digitalWrite(INT1_P16, LOW);
59   delay(1000);
60 }
61
62 void fnc_migi(){
63   digitalWrite(INT4_P13, LOW);
64   digitalWrite(INT3_P14, LOW);
65   digitalWrite(INT2_P15, HIGH);
66   digitalWrite(INT1_P16, LOW);
67   delay(500);
68   digitalWrite(INT4_P13, LOW);
69   digitalWrite(INT3_P14, LOW);
70   digitalWrite(INT2_P15, LOW);
71   digitalWrite(INT1_P16, LOW);
72 }
73
74 void fnc_hidari(){
75   digitalWrite(INT4_P13, HIGH);
76   digitalWrite(INT3_P14, LOW);
77   digitalWrite(INT2_P15, LOW);
78   digitalWrite(INT1_P16, LOW);
79   delay(500);
80   digitalWrite(INT4_P13, LOW);
81   digitalWrite(INT3_P14, LOW);
82   digitalWrite(INT2_P15, LOW);
83   digitalWrite(INT1_P16, LOW);
84 }
85
86 // the loop function runs over and over again forever

```

```
87 void loop() {  
88  
89   if (digitalRead(SW_A)==LOW) {  
90     fnc_mae();  
91     delay(1500);  
92     fnc_hidari();  
93     delay(1500);  
94     fnc_migi();  
95     delay(1500);  
96     fnc_usiro();  
97     delay(1500);  
98     fnc_stop();  
99   }  
100  if (digitalRead(SW_B)==LOW) {  
101    while(digitalRead(SW_F)==HIGH) {  
102      fnc_mae();  
103    }  
104    fnc_usiro();  
105    fnc_migi();  
106    fnc_mae();  
107  }  
108  
109  
110 }  
111
```