```
#define INT4_P13 3
#define INT3_P14 4
#define INT2_P15 5
#define INT1_P16 6

#define SW_A  8
#define SW_B  9
#define SW_F  10


void setup() {
  pinMode(LED_BUILTIN, OUTPUT);
  pinMode(INT4_P13, OUTPUT);
  pinMode(INT3_P14, OUTPUT);
  pinMode(INT2_P15, OUTPUT);
  pinMode(INT1_P16, OUTPUT);

  digitalWrite(INT4_P13, LOW);
  digitalWrite(INT3_P14, LOW);
  digitalWrite(INT2_P15, LOW);
  digitalWrite(INT1_P16, LOW);

  pinMode(SW_A, INPUT_PULLUP);
  pinMode(SW_B, INPUT_PULLUP);
  pinMode(SW_F, INPUT_PULLUP);

}

void fnc_stop(){
  digitalWrite(INT4_P13, LOW);
  digitalWrite(INT3_P14, LOW);
  digitalWrite(INT2_P15, LOW);
  digitalWrite(INT1_P16, LOW);
}

void fnc_mae(){
  digitalWrite(INT4_P13, HIGH);
  digitalWrite(INT3_P14, LOW);
  digitalWrite(INT2_P15, HIGH);
  digitalWrite(INT1_P16, LOW);
  delay(1000);
  digitalWrite(INT4_P13, LOW);
  digitalWrite(INT3_P14, LOW);
  digitalWrite(INT2_P15, LOW);
  digitalWrite(INT1_P16, LOW);
  delay(1000);
}

void fnc_usiro(){
  digitalWrite(INT4_P13, LOW);
  digitalWrite(INT3_P14, HIGH);
  digitalWrite(INT2_P15, LOW);
  digitalWrite(INT1_P16, HIGH);
  delay(1000);
  digitalWrite(INT4_P13, LOW);
  digitalWrite(INT3_P14, LOW);
  digitalWrite(INT2_P15, LOW);
  digitalWrite(INT1_P16, LOW);
  delay(1000);
}

void fnc_migi(){
  digitalWrite(INT4_P13, LOW);
  digitalWrite(INT3_P14, LOW);
  digitalWrite(INT2_P15, HIGH);
  digitalWrite(INT1_P16, LOW);
  delay(500);
  digitalWrite(INT4_P13, LOW);
  digitalWrite(INT3_P14, LOW);
  digitalWrite(INT2_P15, LOW);
  digitalWrite(INT1_P16, LOW);
}

void fnc_hidari(){
  digitalWrite(INT4_P13, HIGH);
  digitalWrite(INT3_P14, LOW);
  digitalWrite(INT2_P15, LOW);
  digitalWrite(INT1_P16, LOW);
  delay(500);
  digitalWrite(INT4_P13, LOW);
  digitalWrite(INT3_P14, LOW);
  digitalWrite(INT2_P15, LOW);
  digitalWrite(INT1_P16, LOW);
}

// 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
```