Particle code.

// ControlLEDFromTheInternet

int LED = D0;

int switchRed = D7;

int switchGreen = D5;

int speaker = D2;

int frequency = 550;

int unit = 100;

String playAgain;

void setup() {

pinMode(LED,OUTPUT);

pinMode(switchRed,INPUT\_PULLUP);

pinMode(switchGreen,INPUT\_PULLUP);

Particle.function("buzz",buzz);//For Send to Photon

Particle.function("SOSBuzz",SOSBuzz);//For SOS

Particle.function("SOSBuzzCon",SOSBuzzCon);//For find my photon

}

void loop() {

if(digitalRead(switchGreen)==0){//To play the last message when green switch is pressed

Serial.println(playAgain);

if(playAgain!= "SOS"){//for the message in the textbox

buzz(playAgain);

}

else{// for playing SOS

SOSBuzz(playAgain);

}

}

digitalWrite(switchGreen,1);

}

void dah(){//for dash with LED flash

digitalWrite(LED,HIGH);

tone(speaker,frequency,3\*unit);

Serial.println("dah");

delay(unit\*3);

digitalWrite(LED,LOW);

}

void dit(){//for dot with LED flash

digitalWrite(LED,HIGH);

tone(speaker,frequency,unit);

Serial.println("dit");

delay(unit);

digitalWrite(LED,LOW);

}

void dit2(){// for dot without LED

tone(speaker,frequency,unit);

Serial.println("dit");

delay(unit);

}

void dah2(){//for dash to work without LED

tone(speaker,frequency,3\*unit);

Serial.println("dah");

delay(unit\*3);

}

void SOSfun(){//For SOS to play without LED

digitalWrite(LED,LOW);

dit2();

dit2();

dit2();

dah2();

dah2();

dah2();

dit2();

dit2();

dit2();

}

int SOSBuzzCon(String message){//For Find my photon

playAgain=message+"Con";

Serial.println(digitalRead(switchRed));

if(digitalRead(switchRed)==1){//Switch is not pressed.

SOSfun();

SOSBuzzCon(message);

}else{//when pressed turn off the buzzer

Serial.println("Switch Pressed:");

noTone(speaker);

}

//return 1;

}

int SOSBuzz(String message){//For the SOS

playAgain=message;

SOSfun();

}

int buzz(String message){//For playing the message in the text box

playAgain=message;

Serial.println(message);

for(int i=0; i < message.length(); i++){

switch(message.charAt(i)){

case 'A':

dit();

dah();

break;

case 'B':

dah();

dit();

dit();

dit();

break;

case 'C':

dah();

dit();

dah();

dit();

break;

case 'D':

dah();

dit();

dit();

break;

case 'E':

dit();

break;

case 'F':

dit();

dit();

dah();

dit();

break;

case 'G':

dah();

dah();

dit();

break;

case 'H':

dit();

dit();

dit();

dit();

break;

case 'I':

dit();

dit();

break;

case 'J':

dit();

dah();

dah();

dah();

break;

case 'K':

dah();

dit();

dah();

break;

case 'L':

dit();

dah();

dit();

dit();

break;

case 'M':

dah();

dah();

break;

case 'N':

dah();

dit();

break;

case 'O':

dah();

dah();

dah();

break;

case 'P':

dit();

dah();

dah();

dit();

break;

case 'Q':

dah();

dah();

dit();

dah();

break;

case 'R':

dit();

dah();

dit();

break;

case 'S':

dit();

dit();

dit();

break;

case 'T':

dah();

break;

case 'U':

dit();

dit();

dah();

break;

case 'V':

dit();

dit();

dit();

dah();

break;

case 'W':

dit();

dah();

dah();

break;

case 'X':

dah();

dit();

dit();

dah();

break;

case 'Y':

dah();

dit();

dah();

dah();

break;

case 'Z':

dah();

dah();

dit();

dit();

break;

default:

dah();

dah();

dah();

break;

}//delay(500);

//digitalWrite(LED,LOW);

}

return 0;

}