int bt1 = 1; // declaring pin 1 as button 1  
int bt2 = 2; // declaring pin 2 as button 2  
int ledG = 5;// declaring pin 5 as LED Green  
int ledR = 8;// declaring pin 8 as LED Red  
int ibt1 = 0;   
int ibt2 = 0;   
int a = 600;   
int b = 1100;   
int c = 5;   
int d = 2000;

void setup() {  
 // put your setup code here, to run once:  
 pinMode(bt1, INPUT); // setting bt1 pin(button 1) as INPUT  
 pinMode(bt2, INPUT); // setting bt2 pin(button 2) as INPUT  
 pinMode(ledG, OUTPUT);// setting ledG pin(LED Green) as OUTPUT  
 pinMode(ledR, OUTPUT);// setting ledR pin(LED Red) as OUTPUT  
  
}  
  
void loop() {  
 // put your main code here, to run repeatedly:  
 ibt1 = digitalRead(bt1); // input from bt1 and storing it in ibt1  
 ibt2 = digitalRead(bt2); // input from bt2 and storing it in ibt2  
   
 if(ibt1 == HIGH) // using if else to   
 {  
 digitalWrite(ledG, LOW);  
 digitalWrite(ledR, LOW);  
  
 }  
  
 else{  
  
 if(ibt2 == LOW)  
 {  
 digitalWrite(ledR, HIGH);  
 delay(50);  
 digitalWrite(ledR, LOW);  
  
 for(int i =0;i<c;i++)  
 {  
 digitalWrite(ledG, HIGH);  
 delay(a);  
 digitalWrite(ledG, LOW);  
 delay(b);  
 a = a+50;  
 }  
 digitalWrite(ledG, LOW);  
 delay(d);  
 }  
  
 else  
 {  
 digitalWrite(ledR, HIGH);  
 delay(50);  
 digitalWrite(ledR, LOW);  
  
 for(int i =0; i<c-3;i++)  
 {  
 digitalWrite(ledG, HIGH);  
 delay(a);  
 digitalWrite(ledG, LOW);  
 delay(b);  
   
 }  
  
 digitalWrite(ledG, LOW);  
 delay(d);  
  
  
 }

}  
  
}