int buttonState = 0;

const int buttonPin = 0;

int counter=0;

void setup() {

// put your setup code here, to run once:

pinMode(3,OUTPUT);

pinMode(4,OUTPUT);

pinMode(7,OUTPUT);

pinMode(1,OUTPUT);

pinMode(buttonPin, INPUT); //button

}

void RunningCircle(){

int arraySize=4;

int pins[arraySize]={4,3,7,1};

for(int j=0;j<3;j++)

{

for(int i=0;i<4;i++)

{

digitalWrite(pins[ i ],HIGH);

delay(50);

digitalWrite(pins[ i ],LOW);

delay(50);

}

}

for(int j=0; j<3;j++)

{

for(int i=0;i<5;i++)

{

digitalWrite(pins[ arraySize -i],HIGH);

delay(50);

digitalWrite(pins[ arraySize -i],LOW);

delay(50);

}

}

}

void ClockwiseAndCounterClockwise(){

digitalWrite(3, HIGH);// don't worry it's just the first part so test it pls.

digitalWrite(4, HIGH);

digitalWrite(7, HIGH);

digitalWrite(1, HIGH);

delay(500);

digitalWrite(3, LOW);

digitalWrite(4, LOW);

digitalWrite(7, LOW);

digitalWrite(1, LOW);

for(int i = 0; i < 2; i++) { //Clockwise

digitalWrite(3, HIGH);

delay(200);

digitalWrite(3, LOW);

digitalWrite(7, HIGH);

delay(200);

digitalWrite(7, LOW);

digitalWrite(1, HIGH);

delay(200);

digitalWrite(1, LOW);

digitalWrite(4, HIGH);

delay(200);

digitalWrite(4, LOW);

}

for(int i = 0; i < 2; i++) { //Counter-clockwise

digitalWrite(3, HIGH);

delay(200);

digitalWrite(3, LOW);

digitalWrite(4, HIGH);

delay(200);

digitalWrite(4, LOW);

digitalWrite(1, HIGH);

delay(200);

digitalWrite(1, LOW);

digitalWrite(7, HIGH);

delay(200);

digitalWrite(7, LOW);

}

}

void Christmas(){

const int arraySize=4;

int pins[arraySize]={4,3,7,1};

for(int i=0;i<4;i++)

{

digitalWrite(pins[i],HIGH);

delay(200);

}

for(int i=0;i<4;i++)

{

digitalWrite(pins[i],LOW);

delay(200);

}

}

void loop() {

buttonState = digitalRead(buttonPin);

if(buttonState==HIGH){

counter++;

if(counter>2){

counter=0;

}

}

if(counter==0){

RunningCircle();

}

if(counter==1){

ClockwiseAndCounterClockwise();

}

if(counter==2){

Christmas();

}

}