const int switchPin = 2;

const int switchPin2 = 9;// named constant for the switch pin

unsigned long previousTime = 0; // store the last time an LED was updated

int switchState = 0;

int switchState2 = 0;// the current switch state

int prevSwitchState = 0; // the previous switch state

int led = 3; // a variable to refer to the LEDs

int interval = 5000; // interval at which to light the next LED (5 s)

void setup() {

// set the LED pins as outputs and turn LEDs off

for (int i = 3; i < 6; i++) {

pinMode(i, OUTPUT);

digitalWrite(i, LOW);

}

// set the switch pin as input

pinMode(switchPin, INPUT);

pinMode(switchPin2, INPUT);

}

void loop() {

switchState2 = digitalRead(switchPin2);

unsigned long currentTime = millis();

if (switchState2==HIGH){

// store the time since the Arduino started running in a variable

// compare the current time to the previous time an LED turned on

// if it is greater than your interval, turn next LED on

if (currentTime - previousTime > interval && led < 6) {

// save the current time as the last time you changed an LED

previousTime = currentTime;

// Turn the LED on

digitalWrite(led, HIGH);

// increment the led variable

// in 5 s the next LED will light up

led++;

}

// read the switch value

switchState = digitalRead(switchPin);

if (switchState != prevSwitchState) {

// turn all the LEDs low

for (int i = 3; i < 6; i++) {

digitalWrite(i, LOW);

}

// reset the LED variable to the first one

led = 3;

//reset the timer

previousTime = currentTime;

}

// set the previous switch state to the current state

prevSwitchState = switchState;

}

else if(switchState==LOW){

previousTime = 0;

digitalWrite(3,LOW);

digitalWrite(4,LOW);

digitalWrite(5,LOW);

}

}