

```
int p1 = A5;
int p2 = A4;
//int laststate;
void setup()
{
  pinMode(A5, INPUT);
  pinMode(A4, INPUT);
  pinMode(3, OUTPUT);
  pinMode(5, OUTPUT);
  pinMode(6, OUTPUT);
  pinMode(9, OUTPUT);

}

void loop()
{
  //state=digitalRead(12);

  p1 = analogRead(A5);
  p2 = analogRead(A4);

  if (p1 > 511 && p2 > 511)
  {
    analogWrite(3, p2);
    delay(100); // Use delay if needed
    analogWrite(5, 0);
    delay(100); // Use delay if needed
    analogWrite(6, p1);
    delay(100); // Use delay if needed
    analogWrite(9, 0);
    delay(100); // Use delay if needed
  }

  if (p1 < 511 && p2 < 511)
  {
    analogWrite(3, 0);
    delay(100); // Use delay if needed
    analogWrite(5, 1023 - p2);
    delay(100); // Use delay if needed
    analogWrite(6, 0);
    delay(100); // Use delay if needed
    analogWrite(9, 1023 - p1);
    delay(100); // Use delay if needed
  }

}
```

```
if (p1 > 511 && p2 < 511)

{
    analogWrite(3, 0);
    delay(100); // Use delay if needed
    analogWrite(5, 1023 - p2);
    delay(100); // Use delay if needed
    analogWrite(6, p1);
    delay(100); // Use delay if needed
    analogWrite(9, 0);
    delay(100); // Use delay if needed

}

if (p1 < 511 && p2 > 511)

{
    analogWrite(3, p2);
    delay(100); // Use delay if needed
    analogWrite(5, 0);
    delay(100); // Use delay if needed
    analogWrite(6, 0);
    delay(100); // Use delay if needed
    analogWrite(9, 1023 - p1);
    delay(100); // Use delay if needed

}

if (p1 == 511 && p2 < 511)

{
    analogWrite(3, 0);
    delay(100); // Use delay if needed
    analogWrite(5, 1023 - p2);
    delay(100); // Use delay if needed
    analogWrite(6, 0);
    delay(100); // Use delay if needed
    analogWrite(9, 0);
    delay(100); // Use delay if needed

}

if (p1 == 511 && p2 > 511)

{
    analogWrite(3, p2);
    delay(100); // Use delay if needed
```

```
analogWrite(5, 0);  
delay(100); // Use delay if needed  
analogWrite(6, 0);  
delay(100); // Use delay if needed  
analogWrite(9, 0);  
delay(100); // Use delay if needed  
}
```

```
if (p1 > 511 && p2 == 511)
```

```
{  
  analogWrite(3, 0);  
  delay(100); // Use delay if needed  
  analogWrite(5, 0);  
  delay(100); // Use delay if needed  
  analogWrite(6, p1);  
  delay(100); // Use delay if needed  
  analogWrite(9, 0);  
  delay(100); // Use delay if needed
```

```
}
```

```
if (p1 < 511 && p2 == 511)
```

```
{  
  analogWrite(3, 0);  
  delay(100); // Use delay if needed  
  analogWrite(5, 0);  
  delay(100); // Use delay if needed  
  analogWrite(6, 0);  
  delay(100); // Use delay if needed  
  analogWrite(9, 1023 - p1);  
  delay(100); // Use delay if needed
```

```
}
```

```
if (p1 == 511 && p2 == 511)
```

```
{  
  analogWrite(3, 0);  
  delay(100); // Use delay if needed  
  analogWrite(5, 0);  
  delay(100); // Use delay if needed  
  analogWrite(6, 0);  
  delay(100); // Use
```