

```
int flexPin = 34;

int threshold =3000;

long alertTime = 10000;

long lastTime = 0;

int lastFlexValue = 0;

String state;

String action;

long startTime;


int buzzer=22; // Buzzer Big - 22, Small - Gnd


void setup() {

  Serial.begin(9600);

  pinMode(buzzer,OUTPUT);

  startTime = millis();

}


void loop() {

  int flexValue = analogRead(flexPin);

  long currentTime = millis();


  if (abs(flexValue - lastFlexValue) <threshold) {

    if (currentTime - lastTime > alertTime) {

      state = "same posture";

      action = "alert";

      digitalWrite(buzzer,HIGH);

      delay(2000);

    } else {
```

```
    state = "same posture";  
    action = "no action";  
    digitalWrite(buzzer,LOW);  
}  
} else {  
    state = "posture changed";  
    action = "normal";  
    lastTime = currentTime;  
    lastFlexValue = flexValue;  
}
```

```
Serial.print("#");  
Serial.print(",");  
Serial.print(currentTime);  
Serial.print(",");  
Serial.print(flexValue);  
Serial.print(",");  
Serial.print(state);  
Serial.print(",");  
Serial.print(action);  
Serial.print(",");  
Serial.println("~");  
  
delay(500);  
}
```