```
int ledPin = 4;
int vibPin =9;
int shkPin = 3;
int shk;

void setup()

{
  pinMode(ledPin, OUTPUT);
  pinMode(vibPin, INPUT);
  pinMode(shkPin, INPUT);

  Serial.begin(9600);
}



void loop()

{
  long measurement =vibration();
  delay(50);

  Serial.println(measurement);
  if (measurement > 5000){
    digitalWrite(ledPin, HIGH);
  }
  else{
    digitalWrite(ledPin, LOW);
```

```
  }



  delay(1);
  if(digitalRead(shkPin)==LOW)
{
    Serial.println("Shock Detected");
    Serial.println("Resetting...");
    digitalWrite(ledPin, HIGH);
    delay(500);
}
  else{
    digitalWrite(ledPin, LOW);
  }




}

long vibration(){
  delay(10);
  long measurement=pulseIn (vibPin, HIGH);
//wait for the pin to get HIGH and returns
measurement
  return measurement;
}
```