```ino
int fsrPin = 0;
int fsrReading;  //Reading from force sensor stored as an int
int fsrVoltage; //The voltage value stored as an int
unsigned long fsrResistance;
unsigned long fsrConductance;
long fsrForce;
void setup(void)
  Serial.begin(9600); // Serial communication at a baud rate of 9600:
}
void loop(void) {
  fsrReading = analogRead(fsrPin);
  // Read the force sensor pin and store the output as fsrreading:
  Serial.print("Analog reading = ");
  Serial.println(fsrReading);
  fsrVoltage = map(fsrReading, 0, 1023, 0, 5000); //Converting the voltage reading into readable voltage
  Serial.print("Voltage reading in mV = ");
  Serial.println(fsrVoltage);
  if (fsrVoltage == 0) {
    Serial.println("No pressure");
  } else {
    fsrResistance = 5000 - fsrVoltage;
    fsrResistance *= 10000;
    fsrResistance /= fsrVoltage;
    fsrConductance = 1000000;
    fsrConductance /= fsrResistance;

    if (fsrConductance <= 1000) {
      fsrForce = fsrConductance / 80;
      Serial.print("Force in Newtons: "); //Output force in Newtons
      Serial.println(fsrForce);
    }
    else {
      fsrForce = fsrConductance - 1000;
      fsrForce /= 30;
      Serial.print("Force in Newtons: ");
      Serial.println(fsrForce);
    }
  }
  Serial.println("--------------------");
  delay(1000);
```