In [1]:
```
import matplotlib.pyplot as plt
import numpy as np
import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.tree import DecisionTreeClassifier
from sklearn.metrics import accuracy_score
```

In [2]:
```
import mysql.connector
from mysql.connector import Error

connection = mysql.connector.connect(
      host="203.145.218.196",
      user="user",
      password="user",
      database="mydb"
)
```

In [3]:
```
mycursor = connection.cursor()

mycursor.execute("SELECT * FROM tb_sensor WHERE sensor_id= 2")

myresult = mycursor.fetchall()
```

In [4]:
```
timestamp = []
min = []
max = []
avg = []
peak = []
peaktopeak = []
rms = []
label = []
```

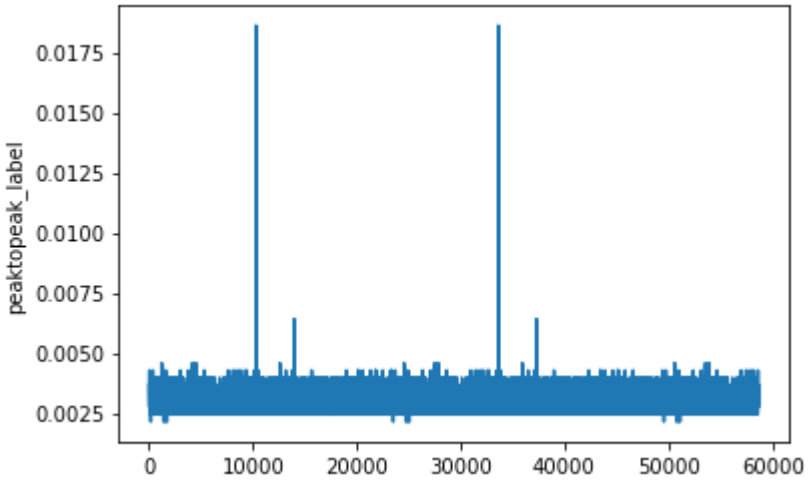
In [5]:
```
for i in myresult:
    timestamp.append(i[0])
    min.append(i[1])
    max.append(i[2])
    avg.append(i[3])
    peak.append(i[4])
    peaktopeak.append(i[5])
    rms.append(i[6])
    if i[5] > 0.004:
         label.append("1")
```

```
    else:
        label.append("0")
```

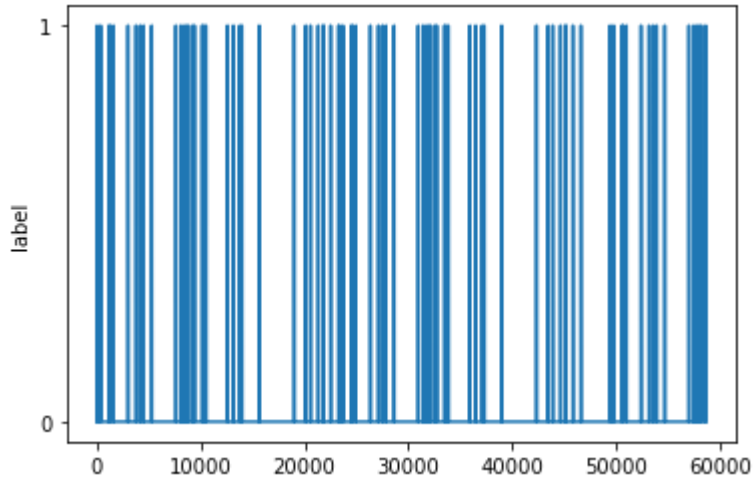
In [6]:
```
print(i)
```

```
(datetime.datetime(2022, 6, 26, 1, 15, 10), 5.14742, 5.15047, 5.14913, 5.15047, 0.0030508, 5.14913, 2)
```

In [7]:
```
plt.plot(peaktopeak)
plt.ylabel('peaktopeak_label')
plt.show()
```



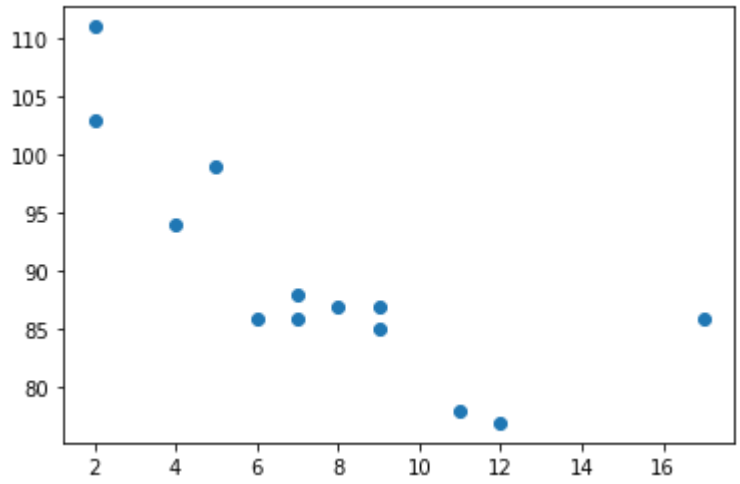
In [8]:
```
plt.plot(label)
plt.ylabel('label')
plt.show()
```



In [9]:
```
import matplotlib.pyplot as plt

x = [5,7,8,7,2,17,2,9,4,11,12,9,6]
y = [99,86,87,88,111,86,103,87,94,78,77,85,86]

plt.scatter(x, y)
plt.show()
```



In [ ]: