In [6]:

```python
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
%matplotlib inline

import matplotlib.pyplot as plt
import numpy as np
from sklearn.linear_model import LogisticRegression
from sklearn.metrics import classification_report, confusion_matrix
```

In [7]:

```python
dataset = pd.read_csv('รวม.csv', index_col=0)
```
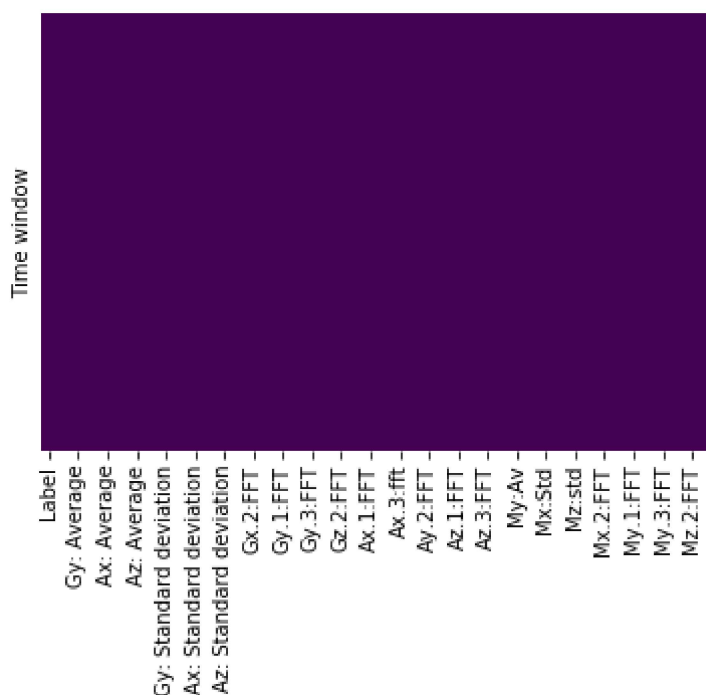
In [8]:

```python
dataset.shape
```

Out[8]:

```
(104, 46)
```

In [9]:

```python
sns.heatmap(dataset.isnull(),yticklabels=False,cbar=False,cmap='viridis')
```

Out[9]:

```
<matplotlib.axes._subplots.AxesSubplot at 0x1e56d8999c8>
```

In [10]:

```python
X = dataset.drop('Label', axis=1)
y = dataset['Label']
```

In [11]:

```python
from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.3)

#test30%train70%
```

In [12]:

```python
from sklearn.linear_model import LogisticRegression
#create an instance and fit the model
logmodel = LogisticRegression()
logmodel.fit(X_train, y_train)
```

D:\Programs\Anaconda3\lib\site-packages\sklearn\linear_model\logistic.py:432: FutureWarni
ng: Default solver will be changed to 'lbfgs' in 0.22. Specify a solver to silence this warning.
  FutureWarning)

Out[12]:

```
LogisticRegression(C=1.0, class_weight=None, dual=False, fit_intercept=True,
          intercept_scaling=1, l1_ratio=None, max_iter=100,
          multi_class='warn', n_jobs=None, penalty='l2',
          random_state=None, solver='warn', tol=0.0001, verbose=0,
          warm_start=False)
```

In [13]:

```python
#predictions
Predictions = logmodel.predict(X_test)
```

In [14]:

```python
from sklearn.metrics import classification_report, confusion_matrix
print(confusion_matrix(y_test, Predictions))

print(classification_report(y_test,Predictions))
```

```
[[18  0]
 [ 0 14]]
              precision    recall  f1-score   support

         Eat       1.00      1.00      1.00        18
       Sleep       1.00      1.00      1.00        14

    accuracy                           1.00        32
   macro avg       1.00      1.00      1.00        32
weighted avg       1.00      1.00      1.00        32
```

In [ ]: