In [ ]:

```
from google.colab import drive
drive.mount('/content/drive')
```

```
Mounted at /content/drive
```

In [ ]:

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import matplotlib.style
from sklearn.model_selection import train_test_split,GridSearchCV
from sklearn.preprocessing import StandardScaler


import warnings
warnings.filterwarnings("ignore")
```

In [ ]:

```
data = pd.read_csv('/content/drive/MyDrive/Training.csv')
```

In [ ]:

```
data.head()
```

Out[83]:

	itching	skin_rash	nodal_skin_eruptions	continuous_sneezing	shivering	chills	joint_pain	s
0	1	1	1	0	0	0	0	
1	0	1	1	0	0	0	0	
2	1	0	1	0	0	0	0	
3	1	1	0	0	0	0	0	
4	1	1	1	0	0	0	0	

5 rows × 134 columns

In [ ]:

```
data=data.drop('Unnamed: 133',axis=1)
```

In [ ]:

```
data.head()
```

Out[85]:

	itching	skin_rash	nodal_skin_eruptions	continuous_sneezing	shivering	chills	joint_pain	s
0	1	1	1	0	0	0	0	
1	0	1	1	0	0	0	0	
2	1	0	1	0	0	0	0	
3	1	1	0	0	0	0	0	
4	1	1	1	0	0	0	0	

5 rows × 133 columns

In [ ]:

```
unique_disease=data['prognosis'].unique()
```

In [ ]:

```
unique_disease
```

Out[87]:

```
array(['Fungal infection', 'Allergy', 'GERD', 'Chronic cholestasis',
       'Drug Reaction', 'Peptic ulcer diseae', 'AIDS', 'Diabetes ',
       'Gastroenteritis', 'Bronchial Asthma', 'Hypertension ', 'Migraine',
       'Cervical spondylosis', 'Paralysis (brain hemorrhage)', 'Jaundice',
       'Malaria', 'Chicken pox', 'Dengue', 'Typhoid', 'hepatitis A',
       'Hepatitis B', 'Hepatitis C', 'Hepatitis D', 'Hepatitis E',
       'Alcoholic hepatitis', 'Tuberculosis', 'Common Cold', 'Pneumonia',
       'Dimorphic hemmorhoids(piles)', 'Heart attack', 'Varicose veins',
       'Hypothyroidism', 'Hyperthyroidism', 'Hypoglycemia',
       'Osteoarthristis', 'Arthritis',
       '(vertigo) Paroymsal  Positional Vertigo', 'Acne',
       'Urinary tract infection', 'Psoriasis', 'Impetigo'], dtype=object)
```

In [ ]:

```
data.describe(include="all")
```

Out[88]:

	itching	skin_rash	nodal_skin_eruptions	continuous_sneezing	shivering	
count	4920.000000	4920.000000	4920.000000	4920.000000	4920.000000	492
unique	NaN	NaN	NaN	NaN	NaN	
top	NaN	NaN	NaN	NaN	NaN	
freq	NaN	NaN	NaN	NaN	NaN	
mean	0.137805	0.159756	0.021951	0.045122	0.021951	
std	0.344730	0.366417	0.146539	0.207593	0.146539	
min	0.000000	0.000000	0.000000	0.000000	0.000000	
25%	0.000000	0.000000	0.000000	0.000000	0.000000	
50%	0.000000	0.000000	0.000000	0.000000	0.000000	
75%	0.000000	0.000000	0.000000	0.000000	0.000000	
max	1.000000	1.000000	1.000000	1.000000	1.000000	

11 rows × 133 columns

In [ ]:

```
data.shape
```

Out[89]:

```
(4920, 133)
```

In [ ]:

```
data.isnull().sum().sum()
```

Out[90]:

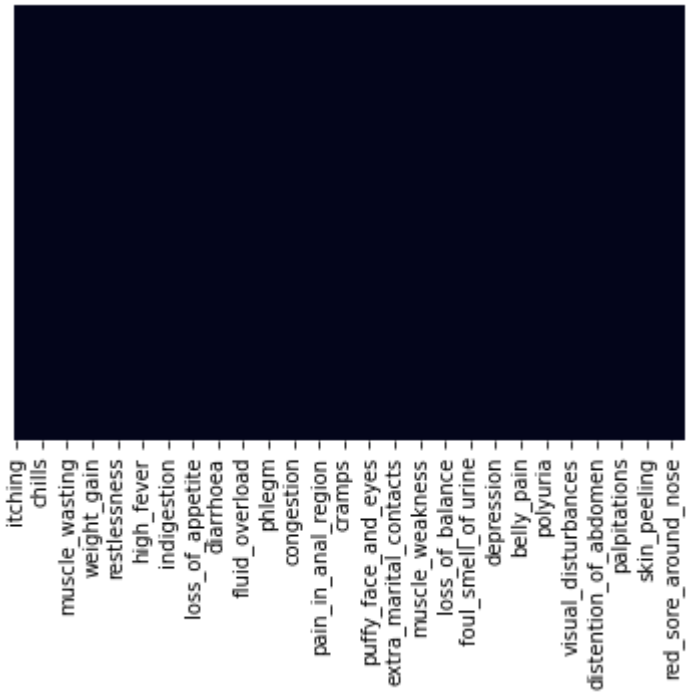
```
0
```

In [ ]:

```
sns.heatmap(data.isnull(),yticklabels=False,cbar=False)
```

Out[91]:

```
<matplotlib.axes._subplots.AxesSubplot at 0x7f44494f03d0>
```



In [ ]:

```
data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 4920 entries, 0 to 4919
Columns: 133 entries, itching to prognosis
dtypes: int64(132), object(1)
memory usage: 5.0+ MB
```

In [ ]:

```
data.corr()
```

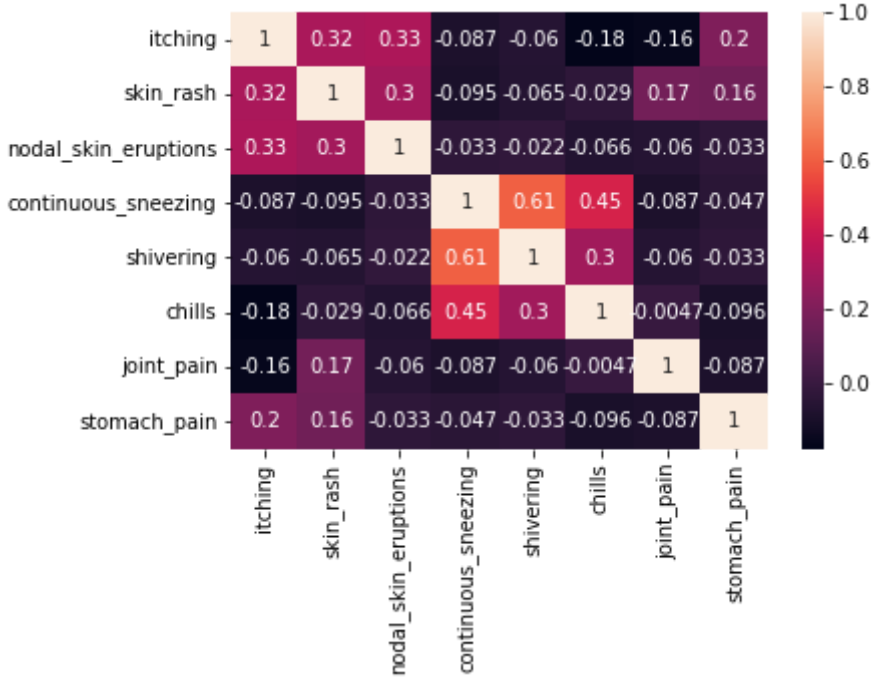
Out[93]:

	itching	skin_rash	nodal_skin_eruptions	continuous_sneezing	shiveri
itching	1.000000	0.318158	0.326439	-0.086906	-0.0598
skin_rash	0.318158	1.000000	0.298143	-0.094786	-0.0653
nodal_skin_eruptions	0.326439	0.298143	1.000000	-0.032566	-0.0224
continuous_sneezing	-0.086906	-0.094786	-0.032566	1.000000	0.6089
shivering	-0.059893	-0.065324	-0.022444	0.608981	1.0000
...	...	...	...	...	
small_dents_in_nails	-0.061573	0.331087	-0.023073	-0.033480	-0.0230
inflammatory_nails	-0.061573	0.331087	-0.023073	-0.033480	-0.0230
blister	-0.061573	0.331087	-0.023073	-0.033480	-0.0230
red_sore_around_nose	-0.061573	0.331087	-0.023073	-0.033480	-0.0230
yellow_crust_ooze	-0.061573	0.331087	-0.023073	-0.033480	-0.0230

132 rows × 132 columns

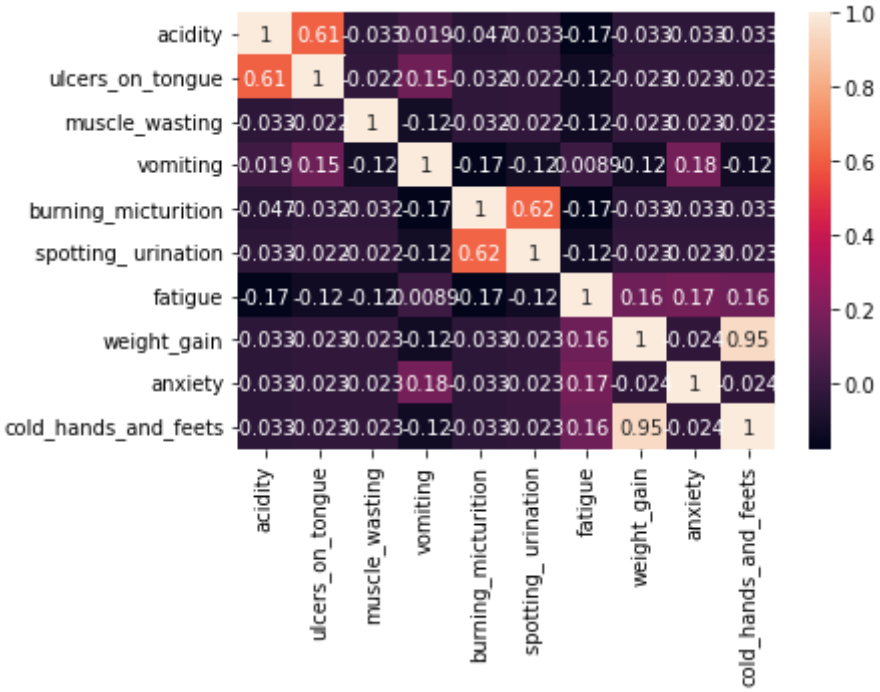
In [ ]:

```
sns.heatmap(data.iloc[:, 0:8].corr(),annot=True)
plt.show()
```



In [ ]:

```
sns.heatmap(data.iloc[:, 8:18].corr(),annot=True)
plt.show()
```



In [ ]:

```
X = data.drop(['prognosis'], axis=1)
y = data['prognosis'].values
```

In [ ]:

```
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.30 , random_state=1)
```

In [ ]:

```
print(X_train.shape)
print(y_train.shape)
print(X_test.shape)
print(y_test.shape)
```

```
(3444, 132)
(3444,)
(1476, 132)
(1476,)
```

KNN

In [ ]:

```
from sklearn.neighbors import KNeighborsClassifier
from sklearn.model_selection import RandomizedSearchCV
from sklearn.metrics import roc_auc_score,classification_report

#,roc_curve,classification_report,confusion_matrix,plot_confusion_matrix
```

In [ ]:

```
neigh = KNeighborsClassifier()
params ={'n_neighbors':[3,5,7,9,11,13,15,17,19,21,23]}
folds = 3

clf = RandomizedSearchCV(neigh, params, cv=folds, scoring='accuracy', n_iter=10, random_sta
search = clf.fit(X_train,y_train)
best_k=search.best_params_['n_neighbors']
print(best_k)
```

```
13
```

In [ ]:

```
neigh = KNeighborsClassifier(n_neighbors=best_k)
neigh.fit(X_train, y_train)
```

Out[101]:

```
KNeighborsClassifier(n_neighbors=13)
```

In [ ]:

```
neigh.score(X_train,y_train)
```

Out[102]:

```
1.0
```

In [ ]:

```
neigh.score(X_test,y_test)
```

Out[103]:

```
1.0
```

In [ ]:

```
ytrain_predict_probknn=neigh.predict_proba(X_train)
ytest_predict_probknn=neigh.predict_proba(X_test)
```

In [ ]:

```
ytrain_predict_knn=neigh.predict(X_train)
ytest_predict_knn=neigh.predict(X_test)
```

In [ ]:

```
train_auc = roc_auc_score(y_train, ytrain_predict_probknn,multi_class='ovr')
print("Train AUC:",train_auc)
```

```
Train AUC: 1.0
```

In [ ]:

```
test_auc = roc_auc_score(y_test, ytest_predict_probknn,multi_class='ovr')
print("Test AUC:",test_auc)
```

```
Test AUC: 1.0
```

In [ ]:

```
print(classification_report(y_test, ytest_predict_knn))
```

```
                                    precision    recall  f1-score   sup
port

(vertigo) Paroymsal  Positional Vertigo       1.00      1.00      1.00
43
                                AIDS       1.00      1.00      1.00
31
                                Acne       1.00      1.00      1.00
39
                Alcoholic hepatitis       1.00      1.00      1.00
29
                             Allergy       1.00      1.00      1.00
40
                           Arthritis       1.00      1.00      1.00
35
                   Bronchial Asthma       1.00      1.00      1.00
33
                Cervical spondylosis       1.00      1.00      1.00
34
                         Chicken pox       1.00      1.00      1.00
32
                Chronic cholestasis       1.00      1.00      1.00
31
                         Common Cold       1.00      1.00      1.00
35
                              Dengue       1.00      1.00      1.00
41
                            Diabetes       1.00      1.00      1.00
36
         Dimorphic hemmorhoids(piles)       1.00      1.00      1.00
41
                       Drug Reaction       1.00      1.00      1.00
28
                   Fungal infection       1.00      1.00      1.00
33
                                GERD       1.00      1.00      1.00
34
                    Gastroenteritis       1.00      1.00      1.00
38
                       Heart attack       1.00      1.00      1.00
44
                        Hepatitis B       1.00      1.00      1.00
35
                        Hepatitis C       1.00      1.00      1.00
45
                        Hepatitis D       1.00      1.00      1.00
40
                        Hepatitis E       1.00      1.00      1.00
34
                       Hypertension       1.00      1.00      1.00
37
                    Hyperthyroidism       1.00      1.00      1.00
37
                       Hypoglycemia       1.00      1.00      1.00
37
                     Hypothyroidism       1.00      1.00      1.00
35
```

```
                        Impetigo       1.00      1.00      1.00
29
                        Jaundice       1.00      1.00      1.00
39
                         Malaria       1.00      1.00      1.00
31
                        Migraine       1.00      1.00      1.00
38
                Osteoarthristis       1.00      1.00      1.00
41
      Paralysis (brain hemorrhage)       1.00      1.00      1.00
42
               Peptic ulcer diseae       1.00      1.00      1.00
37
                        Pneumonia       1.00      1.00      1.00
34
                        Psoriasis       1.00      1.00      1.00
32
                    Tuberculosis       1.00      1.00      1.00
33
                         Typhoid       1.00      1.00      1.00
36
            Urinary tract infection       1.00      1.00      1.00
30
                    Varicose veins       1.00      1.00      1.00
36
                      hepatitis A       1.00      1.00      1.00
41

                        accuracy                           1.00
1476
                        macro avg       1.00      1.00      1.00
1476
                     weighted avg       1.00      1.00      1.00
1476
```

Decision Tree

In [ ]:

```
from sklearn.tree import DecisionTreeClassifier
```

In [ ]:

```
dtree = DecisionTreeClassifier()
dtree.fit(X_train, y_train)
```

Out[110]:

```
DecisionTreeClassifier()
```

In [ ]:

```
ytrain_predict_probdt=dtree.predict_proba(X_train)
ytest_predict_probdt=dtree.predict_proba(X_test)
```

In [ ]:

```
train_auc = roc_auc_score(y_train, ytrain_predict_probdt,multi_class='ovr')
print("Train AUC:",train_auc)
```

```
Train AUC: 1.0
```

In [ ]:

```
test_auc = roc_auc_score(y_test, ytest_predict_probdt,multi_class='ovr')
print("Test AUC:",test_auc)
```

```
Test AUC: 1.0
```

In [ ]:

```
ytrain_predict_dt=dtree.predict(X_train)
ytest_predict_dt=dtree.predict(X_test)
```

In [ ]:

```
dtree.score(X_train,y_train)
dtree.score(X_test,y_test)
```

Out[115]:

```
1.0
```

In [ ]:

```
print(classification_report(y_test, ytest_predict_dt))
```

```
                                    precision    recall  f1-score   sup
port

(vertigo) Paroymsal  Positional Vertigo       1.00      1.00      1.00
43
                                AIDS       1.00      1.00      1.00
31
                                Acne       1.00      1.00      1.00
39
                Alcoholic hepatitis       1.00      1.00      1.00
29
                             Allergy       1.00      1.00      1.00
40
                           Arthritis       1.00      1.00      1.00
35
                   Bronchial Asthma       1.00      1.00      1.00
33
                Cervical spondylosis       1.00      1.00      1.00
34
                         Chicken pox       1.00      1.00      1.00
32
                Chronic cholestasis       1.00      1.00      1.00
31
                         Common Cold       1.00      1.00      1.00
35
                              Dengue       1.00      1.00      1.00
41
                            Diabetes       1.00      1.00      1.00
36
         Dimorphic hemmorhoids(piles)       1.00      1.00      1.00
41
                       Drug Reaction       1.00      1.00      1.00
28
                   Fungal infection       1.00      1.00      1.00
33
                                GERD       1.00      1.00      1.00
34
                    Gastroenteritis       1.00      1.00      1.00
38
                       Heart attack       1.00      1.00      1.00
44
                        Hepatitis B       1.00      1.00      1.00
35
                        Hepatitis C       1.00      1.00      1.00
45
                        Hepatitis D       1.00      1.00      1.00
40
                        Hepatitis E       1.00      1.00      1.00
34
                       Hypertension       1.00      1.00      1.00
37
                    Hyperthyroidism       1.00      1.00      1.00
37
                       Hypoglycemia       1.00      1.00      1.00
37
                     Hypothyroidism       1.00      1.00      1.00
35
```

```
                          Impetigo       1.00      1.00      1.00
29
                          Jaundice       1.00      1.00      1.00
39
                           Malaria       1.00      1.00      1.00
31
                          Migraine       1.00      1.00      1.00
38
                Osteoarthristis          1.00      1.00      1.00
41
        Paralysis (brain hemorrhage)       1.00      1.00      1.00
42
                Peptic ulcer diseae        1.00      1.00      1.00
37
                          Pneumonia        1.00      1.00      1.00
34
                          Psoriasis        1.00      1.00      1.00
32
                       Tuberculosis        1.00      1.00      1.00
33
                           Typhoid         1.00      1.00      1.00
36
             Urinary tract infection       1.00      1.00      1.00
30
                       Varicose veins      1.00      1.00      1.00
36
                         hepatitis A       1.00      1.00      1.00
41

                          accuracy                             1.00
1476
                         macro avg       1.00      1.00      1.00
1476
                      weighted avg       1.00      1.00      1.00
1476
```

RandomForest

In [ ]:

```
from sklearn.ensemble import RandomForestClassifier
```

In [ ]:

```
rf = RandomForestClassifier()
rf.fit(X_train, y_train)
```

Out[118]:

```
RandomForestClassifier()
```

In [ ]:

```
ytrain_predict_probrf=rf.predict_proba(X_train)
ytest_predict_probrf=rf.predict_proba(X_test)
```

In [ ]:

```
train_auc = roc_auc_score(y_train, ytrain_predict_probrf,multi_class='ovr')
print("Train AUC:",train_auc)
```

```
Train AUC: 1.0
```

In [ ]:

```
test_auc = roc_auc_score(y_test, ytest_predict_probrf,multi_class='ovr')
print("Test AUC:",test_auc)
```

```
Test AUC: 1.0
```

In [ ]:

```
ytrain_predict_rf=rf.predict(X_train)
ytest_predict_rf=rf.predict(X_test)
```

In [ ]:

```
rf.score(X_train,y_train)
rf.score(X_test,y_test)
```

Out[123]:

```
1.0
```

In [ ]:

```
print(classification_report(y_test, ytest_predict_rf))
```

```
                                    precision    recall  f1-score   s
upport

(vertigo) Paroymsal  Positional Vertigo       1.00      1.00      1.00
43
                                AIDS       1.00      1.00      1.00
31
                                Acne       1.00      1.00      1.00
39
                Alcoholic hepatitis       1.00      1.00      1.00
29
                             Allergy       1.00      1.00      1.00
40
                           Arthritis       1.00      1.00      1.00
35
                   Bronchial Asthma       1.00      1.00      1.00
33
                Cervical spondylosis       1.00      1.00      1.00
34
                         Chicken pox       1.00      1.00      1.00
32
                Chronic cholestasis       1.00      1.00      1.00
31
                         Common Cold       1.00      1.00      1.00
35
                              Dengue       1.00      1.00      1.00
41
                            Diabetes       1.00      1.00      1.00
36
         Dimorphic hemmorhoids(piles)       1.00      1.00      1.00
41
                       Drug Reaction       1.00      1.00      1.00
28
                   Fungal infection       1.00      1.00      1.00
33
                                GERD       1.00      1.00      1.00
34
                    Gastroenteritis       1.00      1.00      1.00
38
                       Heart attack       1.00      1.00      1.00
44
                        Hepatitis B       1.00      1.00      1.00
35
                        Hepatitis C       1.00      1.00      1.00
45
                        Hepatitis D       1.00      1.00      1.00
40
                        Hepatitis E       1.00      1.00      1.00
34
                       Hypertension       1.00      1.00      1.00
37
                    Hyperthyroidism       1.00      1.00      1.00
37
                       Hypoglycemia       1.00      1.00      1.00
37
                     Hypothyroidism       1.00      1.00      1.00
35
```

```
                        Impetigo       1.00      1.00      1.00
29
                        Jaundice       1.00      1.00      1.00
39
                         Malaria       1.00      1.00      1.00
31
                        Migraine       1.00      1.00      1.00
38
                Osteoarthristis       1.00      1.00      1.00
41
       Paralysis (brain hemorrhage)       1.00      1.00      1.00
42
                Peptic ulcer diseae       1.00      1.00      1.00
37
                        Pneumonia       1.00      1.00      1.00
34
                        Psoriasis       1.00      1.00      1.00
32
                    Tuberculosis       1.00      1.00      1.00
33
                         Typhoid       1.00      1.00      1.00
36
            Urinary tract infection       1.00      1.00      1.00
30
                    Varicose veins       1.00      1.00      1.00
36
                      hepatitis A       1.00      1.00      1.00
41

                        accuracy                           1.00
1476
                       macro avg       1.00      1.00      1.00
1476
                    weighted avg       1.00      1.00      1.00
1476
```

GradientBoosting

In [ ]:

```
from sklearn.ensemble import GradientBoostingClassifier
```

In [ ]:

```
gradientclass = GradientBoostingClassifier(n_estimators=100, learning_rate=1.0,max_depth=1,
```

In [ ]:

```
ytrain_predict_probgb=gradientclass.predict_proba(X_train)
ytest_predict_probgb=gradientclass.predict_proba(X_test)
```

In [ ]:

```
train_auc = roc_auc_score(y_train, ytrain_predict_probgb,multi_class='ovr')
print("Train AUC:",train_auc)
```

```
Train AUC: 0.48896891338601567
```

In [ ]:

```
test_auc = roc_auc_score(y_test, ytest_predict_probgb,multi_class='ovr')
print("Test AUC:",test_auc)
```

```
Test AUC: 0.48801191826233714
```

In [ ]:

```
ytrain_predict_gradientclass=gradientclass.predict(X_train)
ytest_predict_gradientclass=gradientclass.predict(X_test)
```

In [ ]:

```
gradientclass.score(X_train,y_train)
gradientclass.score(X_test,y_test)
```

Out[131]:

```
0.0006775067750677507
```

In [ ]:

```
print(classification_report(y_test, ytest_predict_gradientclass))
```

```
                                     precision    recall  f1-score   sup
port

(vertigo) Paroymsal  Positional Vertigo       0.00      0.00      0.00
43
                                AIDS       0.00      0.00      0.00
31
                                Acne       0.00      0.00      0.00
39
                Alcoholic hepatitis       0.00      0.00      0.00
29
                             Allergy       0.00      0.00      0.00
40
                           Arthritis       0.00      0.00      0.00
35
                   Bronchial Asthma       0.00      0.00      0.00
33
                Cervical spondylosis       0.00      0.00      0.00
34
                         Chicken pox       0.00      0.00      0.00
32
                Chronic cholestasis       0.00      0.00      0.00
31
                         Common Cold       0.00      0.00      0.00
35
                              Dengue       0.00      0.00      0.00
41
                            Diabetes       0.00      0.00      0.00
36
         Dimorphic hemmorhoids(piles)       0.00      0.00      0.00
41
                        Drug Reaction       0.00      0.04      0.00
28
                   Fungal infection       0.00      0.00      0.00
33
                                GERD       0.00      0.00      0.00
34
                    Gastroenteritis       0.00      0.00      0.00
38
                       Heart attack       0.00      0.00      0.00
44
                        Hepatitis B       0.00      0.00      0.00
35
                        Hepatitis C       0.00      0.00      0.00
45
                        Hepatitis D       0.00      0.00      0.00
40
                        Hepatitis E       0.00      0.00      0.00
34
                       Hypertension       0.00      0.00      0.00
37
                    Hyperthyroidism       0.00      0.00      0.00
37
                       Hypoglycemia       0.00      0.00      0.00
37
                     Hypothyroidism       0.00      0.00      0.00
35
```

```
                        Impetigo       0.00      0.00      0.00
29
                        Jaundice       0.00      0.00      0.00
39
                         Malaria       0.00      0.00      0.00
31
                        Migraine       0.00      0.00      0.00
38
                Osteoarthristis       0.00      0.00      0.00
41
      Paralysis (brain hemorrhage)       0.00      0.00      0.00
42
               Peptic ulcer diseae       0.00      0.00      0.00
37
                       Pneumonia       0.00      0.00      0.00
34
                       Psoriasis       0.00      0.00      0.00
32
                    Tuberculosis       0.00      0.00      0.00
33
                         Typhoid       0.00      0.00      0.00
36
          Urinary tract infection       0.00      0.00      0.00
30
                  Varicose veins       0.00      0.00      0.00
36
                     hepatitis A       0.00      0.00      0.00
41

                        accuracy                           0.00
1476
                       macro avg       0.00      0.00      0.00
1476
                    weighted avg       0.00      0.00      0.00
1476
```

LogisticRegression

In [ ]:

```
from sklearn.linear_model import LogisticRegression
```

In [ ]:

```
model = LogisticRegression()
model = model.fit(X_train, y_train)
```

In [ ]:

```
ytrain_predict_problr=model.predict_proba(X_train)
ytest_predict_problr=model.predict_proba(X_test)
```

In [ ]:

```
train_auc = roc_auc_score(y_train, ytrain_predict_problr,multi_class='ovr')
print("Train AUC:",train_auc)
```

```
Train AUC: 1.0
```

In [ ]:

```
test_auc = roc_auc_score(y_test, ytest_predict_problr,multi_class='ovr')
print("Test AUC:",test_auc)
```

```
Test AUC: 1.0
```

In [ ]:

```
ytrain_predict_model=model.predict(X_train)
ytest_predict_model=model.predict(X_test)
```

In [ ]:

```
model.score(X_train,y_train)
model.score(X_test,y_test)
```

Out[139]:

```
1.0
```

In [ ]:

```
print(classification_report(y_test, ytest_predict_model))
```

```
                                     precision    recall  f1-score   sup
port

(vertigo) Paroymsal  Positional Vertigo       1.00      1.00      1.00
43
                                AIDS       1.00      1.00      1.00
31
                                Acne       1.00      1.00      1.00
39
                 Alcoholic hepatitis       1.00      1.00      1.00
29
                             Allergy       1.00      1.00      1.00
40
                           Arthritis       1.00      1.00      1.00
35
                    Bronchial Asthma       1.00      1.00      1.00
33
                Cervical spondylosis       1.00      1.00      1.00
34
                         Chicken pox       1.00      1.00      1.00
32
                 Chronic cholestasis       1.00      1.00      1.00
31
                         Common Cold       1.00      1.00      1.00
35
                              Dengue       1.00      1.00      1.00
41
                            Diabetes       1.00      1.00      1.00
36
          Dimorphic hemmorhoids(piles)       1.00      1.00      1.00
41
                       Drug Reaction       1.00      1.00      1.00
28
                    Fungal infection       1.00      1.00      1.00
33
                                GERD       1.00      1.00      1.00
34
                     Gastroenteritis       1.00      1.00      1.00
38
                        Heart attack       1.00      1.00      1.00
44
                         Hepatitis B       1.00      1.00      1.00
35
                         Hepatitis C       1.00      1.00      1.00
45
                         Hepatitis D       1.00      1.00      1.00
40
                         Hepatitis E       1.00      1.00      1.00
34
                        Hypertension       1.00      1.00      1.00
37
                     Hyperthyroidism       1.00      1.00      1.00
37
                        Hypoglycemia       1.00      1.00      1.00
37
                      Hypothyroidism       1.00      1.00      1.00
35
```

Impetigo	1.00	1.00	1.00	29
Jaundice	1.00	1.00	1.00	39
Malaria	1.00	1.00	1.00	31
Migraine	1.00	1.00	1.00	38
Osteoarthristis	1.00	1.00	1.00	41
Paralysis (brain hemorrhage)	1.00	1.00	1.00	42
Peptic ulcer diseae	1.00	1.00	1.00	37
Pneumonia	1.00	1.00	1.00	34
Psoriasis	1.00	1.00	1.00	32
Tuberculosis	1.00	1.00	1.00	33
Typhoid	1.00	1.00	1.00	36
Urinary tract infection	1.00	1.00	1.00	30
Varicose veins	1.00	1.00	1.00	36
hepatitis A	1.00	1.00	1.00	41
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476