```
In [3]: | from sklearn.cluster import AgglomerativeClustering
          import pandas as pd
          import numpy as np
          import matplotlib.pyplot as plt
          from sklearn import metrics
 In [4]: data = pd.read_csv("zoo.csv")
          data.head()
 Out[4]:
             animal_name hair feathers eggs milk airborne aquatic predator toothed backbone bre
          0
                                   0
                                         0
                                              1
                                                      0
                                                              0
                                                                              1
                                                                                       1
                 aardvark
                           1
          1
                 antelope
                           1
                                   0
                                         0
                                              1
                                                      0
                                                                      0
                                                                              1
                                                                                       1
          2
                           0
                                   0
                                         1
                                              0
                                                      0
                                                              1
                                                                      1
                    bass
                                                                              1
                                                                                       1
          3
                    bear
                                   0
                                         0
                                                                      1
                                                                                       1
                                                                      1
                                                                                       1
                    boar
                           1
                                   0
                                         0
                                              1
                                                      0
                                                              0
 In [5]: #Find unique class types
         unique_classtypes = np.unique(data["class_type"].values)
In [8]: | #Initialize Agglomerative Clustering
          agglo = AgglomerativeClustering(n_clusters=4)
          predicted values = agglo.fit predict(data.iloc[:, 1:16])
 In [9]: #Accuracy Score
          print("Accuracy Score")
          print(metrics.accuracy_score(predicted_values, data["class_type"].values))
         Accuracy Score
         0.0297029702970297
In [11]:
         #Mean Square Error Value
          print("Mean Square Error Value")
          print(metrics.mean_squared_error(predicted_values, data["class_type"].values))
         Mean Square Error Value
         7.198019801980198
In [ ]:
```