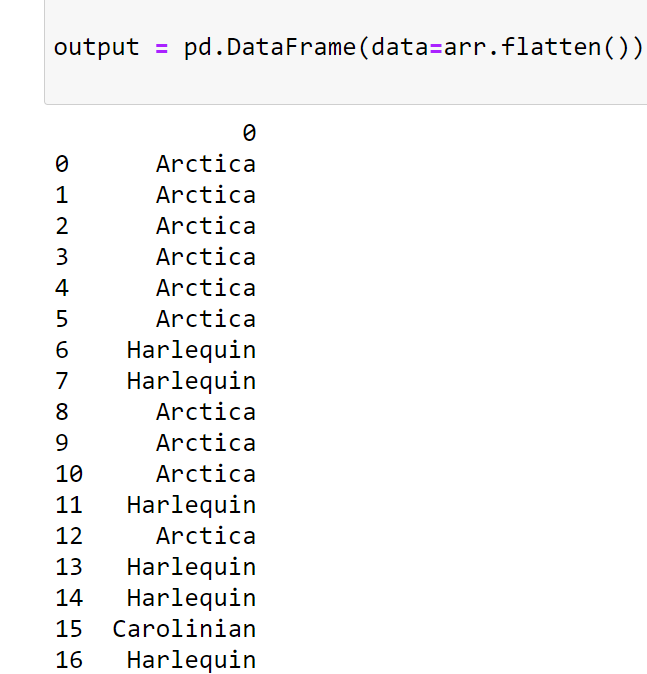
**Name: Abdul Moiz Asif**

**CMS: 263802**

**Class: BSCS8C**

**Lab #3 AI**

from sklearn.metrics import confusion\_matrix  
from sklearn.model\_selection import train\_test\_split  
import pandas as pd  
from pandas import ExcelWriter  
from pandas import ExcelFile  
import numpy as np  
#loading the dataset  
df=pd.read\_csv(r'trainingSet.csv')  
  
X\_train=df.iloc[:,:-1].values  
Y\_train=df.iloc[:,-1].values  
  
  
# Now the value is splitted into independent and dependend variables.Now training the svm model  
  
from sklearn.svm import SVC  
svm\_model\_linear=SVC(kernel='linear',C=1).fit(X\_train,Y\_train)  
  
  
# Now the model is train.We are taking the X\_test from the test.csv   
  
df=pd.read\_csv(r'testSet1.csv')  
X\_test=df.iloc[:,:-1].values  
  
  
# We are going to get our predictions  
  
sp=svm\_model\_linear.predict(X\_test)  
  
arr = np.array(sp)  
  
output = pd.DataFrame(data=arr.flatten())  
  
  
writer = ExcelWriter('results.xlsx')  
output.to\_excel(writer,index=False)  
writer.save()

**Output:  
**