```
import pandas as pd
import numpy as np
from sklearn.feature extraction.text import CountVectorizer
from sklearn.model selection import train test split
from sklearn.tree import DecisionTreeClassifier
import nltk
import re
from nltk.corpus import stopwords
stopword = set(stopwords.words('english'))
stemmer = nltk.SnowballStemmer("english")
data=pd.read csv("data.csv")
print(data.head())
   Unnamed: 0 count hate speech offensive language neither class
\
0
                   3
                                                                    2
                   3
                                                                    1
2
                   3
                                                                    1
3
                   3
                                                    2
                                                                    1
                   6
                                                    6
                                                                    1
                                               tweet
  !!! RT @mayasolovely: As a woman you shouldn't...
  !!!!! RT @mleew17: boy dats cold...tyga dwn ba...
  !!!!!!! RT @UrKindOfBrand Dawg!!!! RT @80sbaby...
  !!!!!!!! RT @C_G_Anderson: @viva_based she lo...
   !!!!!!!!!! RT @ShenikaRoberts: The shit you...
data["labels"]=data["class"].map({0:"Hate Speech", 1:"Offensive
Speech", 2: "No Hate and Offensive Speech"})
data=data[["tweet","labels"]]
data.head()
                                               tweet \
   !!! RT @mayasolovely: As a woman you shouldn't...
  !!!!! RT @mleew17: boy dats cold...tyga dwn ba...
   !!!!!!! RT @UrKindOfBrand Dawg!!!! RT @80sbaby...
3
  !!!!!!!!! RT @C G Anderson: @viva based she lo...
   !!!!!!!!!! RT @ShenikaRoberts: The shit you...
                         labels
0 No Hate and Offensive Speech
```

```
1
                Offensive Speech
2
                Offensive Speech
3
                Offensive Speech
                Offensive Speech
import re
def clean (text):
    text=str (text). lower()
    text= re. sub('[.?]', '', text)
    text= re. sub('https?://\S+|www.\S+', '', text)
    text= re. sub('<.?>+', '', text)
text= re. sub(r'[^\w\s]', '', text)
    text= re. sub('\n', '', text)
text= re. sub('\w\d\w', '', text)
    text=[word for word in text.split(' ') if word not in stopword]
    text=" ". join(text)
    text= [stemmer.stem(word) for word in text. split(' ')]
    text=" ". join(text)
    return text
data["tweet"] = data["tweet"].apply(clean)
x=np.array(data["tweet"])
y=np.array(data["labels"])
cv=CountVectorizer()
X = cv.fit transform(x)
X_train,X_test,y_train,y_test =
train test split(X,y,test size=0.33,random state=42)
model = DecisionTreeClassifier()
model.fit(X train,y train)
DecisionTreeClassifier()
y pred=model.predict(X test)
from sklearn.metrics import accuracy_score
print(accuracy score(y test,y pred))
0.8774911358356767
i="You are too bad and I dont like your attitude"
i = cv.transform([i]).toarray()
print(model.predict((i)))
['No Hate and Offensive Speech']
```

```
i="wommen belong in kitchen"
i = cv.transform([i]).toarray()
print(model.predict((i)))

['No Hate and Offensive Speech']
i="Fuck you"
i = cv.transform([i]).toarray()
print(model.predict((i)))

['Offensive Speech']
i="niggas gonna get corona"
i = cv.transform([i]).toarray()
print(model.predict((i)))

['No Hate and Offensive Speech']
```