**Lexical Analysis:**

import re  
import string  
for i in range(1,41):  
 data = open('t'+str(i)+'.txt').read()  
 my\_handle = open('t'+str(i)+'.txt', "w")  
 result = re.sub(r'\d+', '', data.lower())  
 res = result.translate(str.maketrans("", "", string.punctuation))  
 translation=str.maketrans("§"," ")  
 res1=res.translate(translation)  
 result1 = " ".join(res1.split())  
 my\_handle.write(result1)  
 my\_handle.close()

**Stopwords:**

from nltk.corpus import stopwords  
stoplist = stopwords.words(‘ English ')  
additional\_stopwords = """case judge judgment court"""  
stoplist += additional\_stopwords.split()  
for i in range(1,41):  
 file = open('t'+str(i)+'.txt')  
 text = file.read()  
 clean = [word for word in text.split() if word not in stoplist]  
 stoplist += additional\_stopwords.split()  
 print(clean)  
 str1 = ' '.join([str(elem) for elem in clean])  
 my\_handle = open('t'+str(i)+'.txt', "w")  
 my\_handle.write(str1)

**Stemming:**

from nltk import PorterStemmer  
for i in range(1,41):  
 with open('t'+str(i)+'.txt', 'r') as f:  
 for line in f:  
 print(line)  
 singles = []  
 stemmer = PorterStemmer()  
 for plural in line.split():  
 singles.append(stemmer.stem(plural))  
 my\_handle =open('T'+str(i)+'.txt', "w")  
 my\_handle.write(' '.join(singles))  
 print(' '.join(singles))

**Main Code:**

import re  
import string  
murder,dowry\_death,cheating\_case,dacoit,kidnap,robbery,rape,burglary=0,0,0,0,0,0,0,0  
f={}  
f['murder'],f['dowry'],f['kidnap'],f['cheating'],f['dacoity'],f['robbery'],f['rape'],f['burglary']=[],[],[],[],[],[],[],[]  
for i in range(1,41):  
 data = open('t'+str(i)+'.txt').read()  
 if re.search("murder",data):  
 murder=murder+1  
 f['murder'].append('t'+str(i)+'.txt')  
 continue

if re.search("dowri",data) or re.search("dowri\sdeath",data):  
 dowry\_death=dowry\_death+1  
 f['dowry'].append('t'+str(i)+'.txt')  
 continue

if re.search("rape",data):  
 rape=rape+1  
 f['rape'].append('t'+str(i)+'.txt')  
 continue  
 if re.search("cheat",data) or re.search("cheat\scase",data):  
 cheating\_case=cheating\_case+1  
 f['cheating'].append('t'+str(i)+'.txt')  
 continue  
 if re.search("robberi",data) or re.search("theft",data):  
 robbery=robbery+1  
 f['robbery'].append('t'+str(i)+'.txt')  
 continue  
 if re.search("kidnap",data) or re.search("kidnapp",data):  
 kidnap=kidnap+1  
 f['kidnap'].append('t'+str(i)+'.txt')  
 continue  
 if re.search("dacoit",data):  
 dacoit=dacoit+1  
 f['dacoity'].append('t'+str(i)+'.txt')  
 continue  
 if re.search("burglari",data):  
 burglary=burglary+1  
 f['burglary'].append('t'+str(i)+'.txt')  
 continue  
  
print("Murder\_Cases"+" "+": "+" "+str(murder)+" ("+str(f['murder'])+")")  
print("Dowry\_Death\_Cases"+" "+":"+" "+str(dowry\_death)+" ("+str(f['dowry'])+")")  
print("Kidnap\_Cases"+" "+": "+" "+str(kidnap)+" ("+str(f['kidnap'])+")")  
print("Cheating\_Cases"+" "+": "+" "+str(cheating\_case)+" ("+str(f['cheating'])+")")  
print("Dacoity\_Cases"+" "+": "+" "+str(dacoit)+" ("+str(f['dacoity'])+")")  
print("Robbery\_Cases"+" "+": "+" "+str(robbery)+" ("+str(f['robbery'])+")")  
print("Rape\_Cases"+" "+": "+" "+str(rape)+" ("+str(f['rape'])+")")  
print("Burglary\_Cases"+" "+": "+" "+str(burglary)+" ("+str(f['burglary'])+")")