Write a program to generate tokens from given input string.

Intro:

- Lexical analysis is the first phase of a compiler.
- It reads character streams from the source code, checks for legal tokens, and passes the data to the syntax analyser when it demands.
- this analysis generates tokens from given string.

Code:

```
# string = input().split()
keyWords = open("keywords.txt","r")
operators = open("operators.txt","r")
delimiters = open("delimiter.txt","r")
#keywords,op from files
keyW = [char.strip() for char in keyWords]
op = [char.strip() for char in operators]
dl = [char.strip() for char in delimiters]
#input from file
mainFile = open("file.txt",'r')
fileList = mainFile.read().split()
mainList = []
#differenciate list
for word in fileList:
    if ',' in word:
        count = word.count(",")
        temp = word.split(",")
        # print(temp)
        for char in temp:
            mainList.append(char)
            if count > 0:
                mainList.append(",")
            count -= 1
    elif word.endswith(';'):
```

```
mainList.append(word[:-1])
        mainList.append(";")
    else:
        mainList.append(word)
print(mainList)
opFile = open("opFile.txt",'w')
opFile.close()
opFile = open("opFile.txt",'a')
for token in mainList:
    if token in keyW:
        p = str(token + " is Keyword")
        opFile.write(p+'\n')
    elif token in op:
        p = str(token + " is Operator")
        opFile.write(p+'\n')
    elif token in dl:
        p = str(token + " is Delimiter")
        opFile.write(p+'\n')
    elif token.isdecimal():
        p = str(token + " is Digit")
        opFile.write(p+'\n')
    elif token.isalnum():
        p = str(token + " is identifier")
        opFile.write(p+'\n')
opFile.close()
keyWords.close()
operators.close()
mainFile.close()
```

Files:





