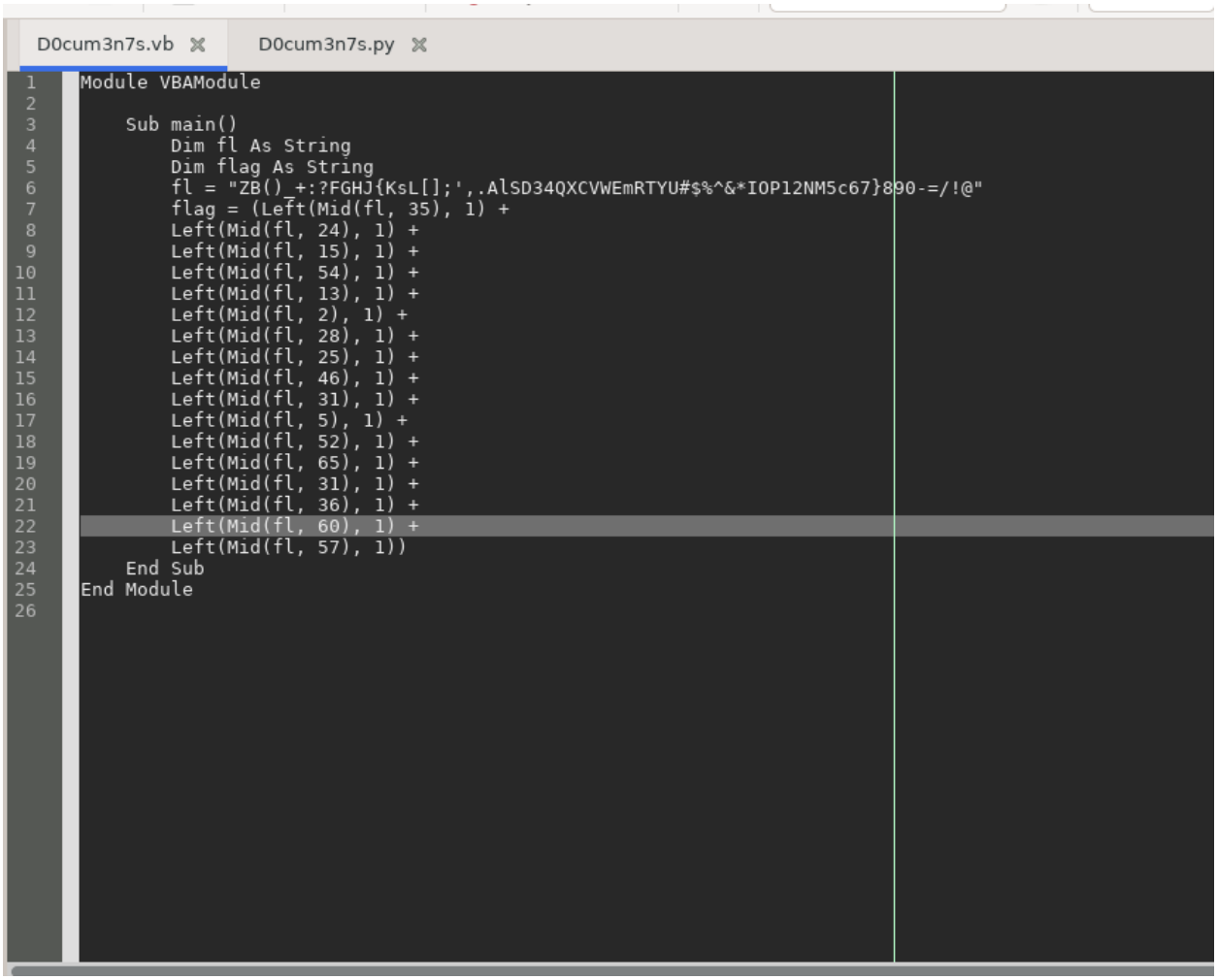
First, run oledump on the file to reveal all streams of data:

```
alpine:/home/ogre/Downloads# python ../geany-prjs/D0cum3n7s.py
mlsc{B4SIX_M@CmR0}
alpine:/home/ogre/Downloads# python ../DidierStevensSuite/oledump.py totallySafeDoc.docm
A: word/vbaProject.bin
 A1:       420 'PROJECT'
 A2:        71 'PROJECTwm'
 A3: M    1836 'VBA/NewMacros'
 A4: m    1082 'VBA/ThisDocument'
 A5:      2671 'VBA/_VBA_PROJECT'
 A6:      1462 'VBA/__SRP_0'
 A7:       122 'VBA/__SRP_1'
 A8:       169 'VBA/__SRP_2'
 A9:       156 'VBA/__SRP_3'
A10:       568 'VBA/dir'
alpine:/home/ogre/Downloads#
```

A3 looks suspicious. It is a VB macro and its name seems fishy. Let's decompress this script and see what it has inside:

```
alpine:/home/ogre/Downloads# python ../DidierStevensSuite/oledump.py -s 3 --vbadecompressskipattribute  totallySafeDoc.docm
Sub flag()
    Dim fl As String
    Dim flag As String
    fl = "ZB() +:7FGHJ{KsL[];',.AlSD34QXCVWEmRTYU#$%^&*IOP12NM5c67}890-=/!@"
    flag = (Left(Mid(fl, 35), 1) + Left(Mid(fl, 24), 1) + Left(Mid(fl, 15), 1) + Left(Mid(fl, 54), 1) + Left(Mid(fl, 13), 1) + Left(Mid(fl, 2), 1) + Left(Mid(fl, 28), 1) + Left(Mid(fl, 25),
1) + Left(Mid(fl, 46), 1) + Left(Mid(fl, 31), 1) + Left(Mid(fl, 5), 1) + Left(Mid(fl, 52), 1) + Left(Mid(fl, 65), 1) + Left(Mid(fl, 31), 1) + Left(Mid(fl, 36), 1) + Left(Mid(fl, 60), 1) + Le
ft(Mid(fl, 57), 1))
End Sub
```



There’s a function (Sub) called flag which computes the flag based on the fl variable. Now, we can recreate this VB code in Python as below:

D0cum3n7s.vb D0cum3n7s.py

```
1  fl = "ZB()_+:?FGHJ{KsL[];',.AlSD34QXCVWEmRTYU#$%^&*IOP12NM5c67}890-=/!@"
2  flag = ""
3
4
5  flag = fl[34] + fl[23] + fl[14] + fl[53] + fl[12] + fl[1] + fl[27] + \
6      fl[24] + fl[45] + fl [29] + fl[4] + fl[51] + fl[64] + fl[30] + fl[34] + \
7      fl[35] + fl[59] + fl[56]
8
9
10 print(flag)
11
12
13
```

On a side note, VB can be zero and one indexed (it does not make sense, right?). And, Mid and Left functions are one-indexed. Thereby, those indexes in the Python code have been decremented by one. When we run the Python code, we will get the flag:


alpine:/home/ogre/Downloads# python ../geany-prjs/D0cum3n7s.py
mlsc{B4SIX_M@CmR0}
alpine:/home/ogre/Downloads#