

File Handling in Python

In [2]:

```
f=open("sample.txt","r")  
print(f.read())# To read the data from File
```

Hello

Write a program that reads a file and writes out a new file with the lines in reversed order

(i.e. the first line in the old file becomes the last one in the new file.)

In [3]:

```
inFile=open("sample.txt","r")  
outFile=open("Output.txt","w")  
listofLines=inFile.readlines()  
inFile.close()  
for line in reversed(listofLines):  
    print(line.rstrip())  
    outFile.write(line)  
outFile.close()
```

Thank you
Snake is a dangerous creature
Snakes are of different types
Good Afternoon
Hello

Write a program that reads a file and prints only those lines that contain the substring snake.

In [14]:

```
f=open("sample.txt","r")  
listofLines=f.readlines()  
f.close()  
for line in listofLines:  
    if len(line)==0:  
        break  
    if "snake" in line.lower():  
        print(line.rstrip())  
f.close()  
# The rstrip() removes characters from the right based on the argument  
# (a string specifying the set of characters to be removed).
```

Snakes are of different types
snake is a dangerous creature

Write a program that reads a text file and produces an output file which is a copy of the file, except the first five columns of each line contain a four digit line number, followed by a space. Start numbering the first line in the output file at 1. Ensure that every line number is formatted to the same width in the output file. Use one of your Python programs as test data for this exercise: your output should be a printed and numbered listing of the Python program.

In [22]:

```
inFile=open("testFile.txt","r")
outFile=open("testOutFile.txt","w")
line_num=1
coloumns='0000'
number_of_line=''
while True:
    line=inFile.readline()
    if len(line)==0:
        break
    if line_num<=9:
        number_of_line=f'{coloumns}{line_num}'
    if line_num>9 and line_num<=99:
        number_of_line=f'{coloumns[:3]}{line_num}'
    if line_num>99 and line_num<=999:
        number_of_line=f'{coloumns[:2]}{line_num}'
    line_num+=1
    final_line=number_of_line+" "+line
    outFile.write(final_line)
outFile.close()
```

Write a program that undoes the numbering of the previous exercise: it should read a file with numbered lines and produce another file without line numbers.

In [25]:

```
sample_file=open("testOutFile.txt","r")
outFile=open("anotherOutFile.txt","w")
lines=sample_file.readlines()
sample_file.close()
for line in lines:
    if len(line)==0:
        break
    outFile.write(line[6:])
outFile.close()
```

In []: