Cheatography

Input/Output with Python Cheat Sheet

by Nima (nimakarimian) via cheatography.com/113429/cs/23537/

open and close

```
myfile = open("filename.txt")
" r"read mode
" w"write mode
" a"append mode
" r+"w rit e/read mode
" wb"write binary mode
....
------ --- --- -------
myfile.cl ose()
```

The argument of the open function is the path to the file.

working with files

It is good practice to avoid wasting resources by making sure that files are always closed after they have been used.

```
try:
    f = open("f ile nam e.t xt")
  print( f.r ead())
finally:
    f.close()
```

```
.............................
```

An altern ative way of doing this is using with statem ents. This creates a temporary variable (often called f), which is only accessible in the indented block of the with statement.

The file is automa tically closed at the end of the with statement, even if exceptions occur within it.

```
with open("f ile nam e.t xt") as
f:
    print( f.r ead())
```

reading

```
file = open("filename.txt", "r")
cont = file.r ead()
print( cont)
file.c lose()
.................................
file = open("f ile nam e.t xt", " r")
print( fil e.r ead (16))
This determines the number of bytes that
should be read.
.....................................
To retrieve each line in a file, you can
use the readlines method
file = open("f ile nam e.t xt", " r")
print( fil e.r ead lin es())
file.c lose()
>>>
['Line 1 text \n', 'Line 2 text \n',
'Line 3 text']
>>>
.....................
You can also use a for loop to iterate
through the lines in the file:
file = open("f ile nam e.t xt", " r")
for line in file:
        pri nt( line)
file.c lose()
>>>
Line 1 text
Line 2 text
Line 3 text
>>>
```

writing

```
file = open("newfile.txt", "w")
file.w rit e("This has been
written to a file")
file.c lose()
.........................
When a file is opened in write
mode, the file's existing
content is deleted.
.................
The write method returns the
number of bytes written to a
file, if succes sful.
msg = " Hello world! "
file = open("n ewf ile.tx t",
" w")
amount _wr itten = file.w rit -
e(msg)
print( amo unt _wr itten)
file.c lose()
>>>
12
>>>
```


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