File I/O TH.S TRÀN ĐỨC LỢI PYTHONVIETNAM.INFO

Ôn tập bài cũ

• Ôn lại nội dung đã học về **Function**, **module & package**

Mục đích bài học

• Tìm hiểu về file I/O trong python

I/O

- Raw_input()
- Input()
- Print()

Biểu diễn dữ liệu

Type	Meaning
'b'	Binary format. Outputs the number in base 2.
'c'	Character. Converts the integer to the corresponding unicode character before printing.
'd'	Decimal Integer. Outputs the number in base 10.
'o'	Octal format. Outputs the number in base 8.
'x'	Hex format. Outputs the number in base 16, using lower- case letters for the digits above 9.
'X'	Hex format. Outputs the number in base 16, using upper-case letters for the digits above 9.
'n'	Number. This is the same as 'd', except that it uses the current locale setting to insert the appropriate number separator characters.
None	The same as 'd'.

PythonBeginnerClass @loitd #pythonvietnam.info

Mở một file

- Tác dụng của hàm open()
- Giá trị trả về
- Filehandle = *open*(filename, mode, buffer)
- Ví dụ:
 - o Open('file.loi', 'r')

File I/O: Mode

- Mặc định là read.
- r: reading only, pointer at beginning. Error if not exists
- r+: both read & write
- w: writting only. Overwrite if existed.
- w+: both writting & reading. Ponter at the beginning.
- a: appending. pointer at the end if file exists. create new if not exists
- a+: appending & reading. pointer at the end.
- b: in binary mode

File I/O: Buffer

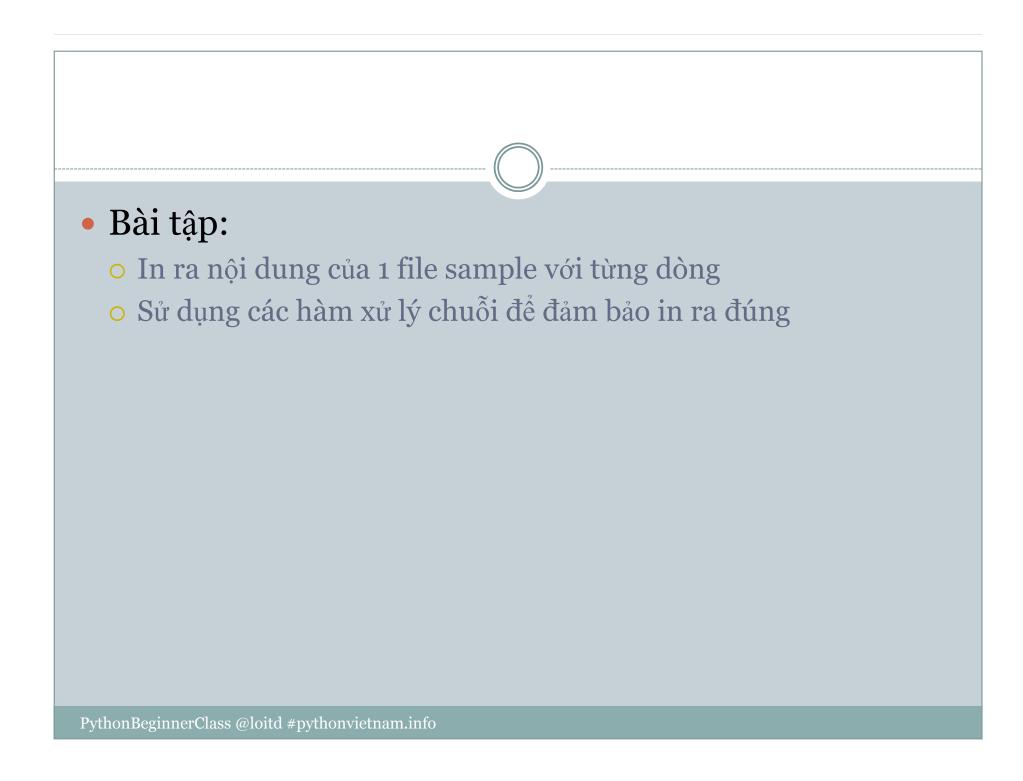
- néu = o, không sử dụng buffer
- nếu = 1: line buffering
- nếu > 1: buffer with buffer size
- nếu < 0: buffer size = system default

File I/O

- Trong trường hợp không có file?
- File handle with for loop
 - o For l in handle:
- Bài tập:
 - Mở một file do người dùng nhập vào
 - Đếm số dòng trong một file đó?

File I/O: read & readline

- Handle.read()
- Handle.read(xbytes)
- Handle.readline()
- Handle.readline(xbytes)
- Handle.readlines(xbytes)
- EOF: trả về null



File I/O: pointer

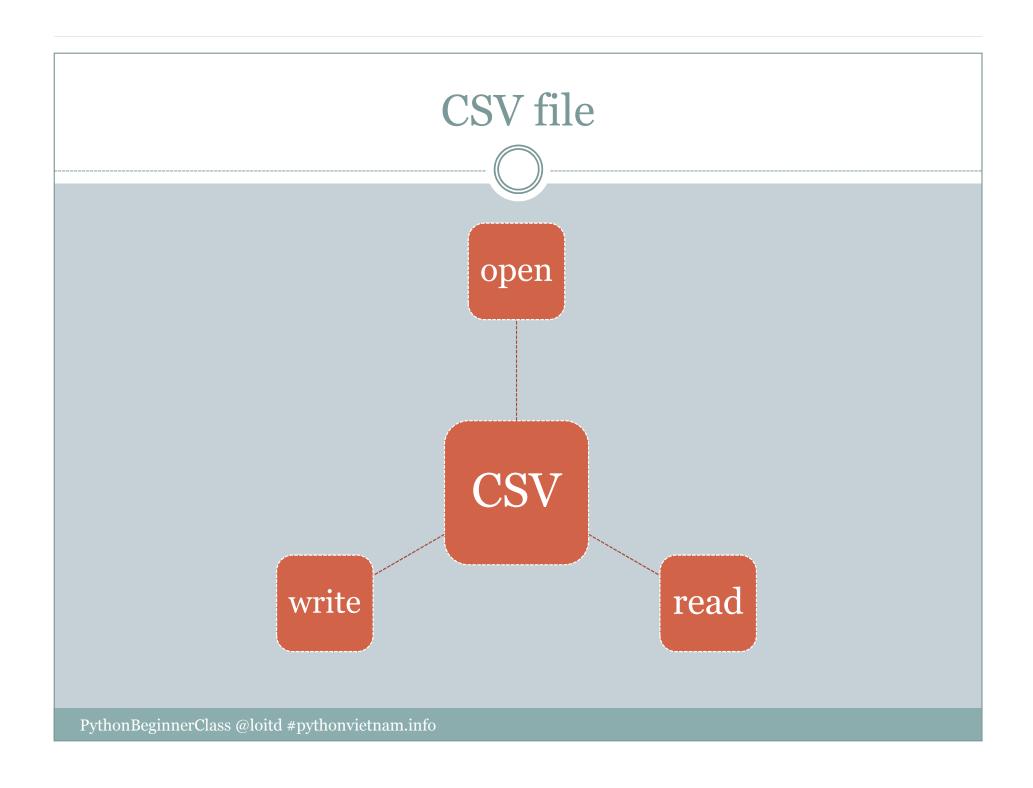
- Handle.write('x')
- Handle.tell()
- Handle.seek(offset, from)
- From:
 - o o: đầu file
 - o 1: vị trí hiện thời
 - o 2: cuối file
- Offset: bytes

OS module: file & folder

- Os.mkdir()
- Os.chdir()
- Os.getcwd()
- Os.rmdir()
- Os.remove()
- Os.path.isfile()
- Os.path.exists()
- Os.access(filename, os.R_OK)

Zip files zipfile.ZipFile(filename) zipfile module z.namelist() z.extractall(pwd='123456') z.write()

PythonBeginnerClass @loitd #pythonvietnam.info



CSV file

- Import csv
- writer = csv.writer(fh, delimiter=',', quotechar='|', quoting=csv.QUOTE_MINIMAL)
 - Delimiter: A one-character string used to separate fields. It defaults to ','.
 - Quotechar: A one-character string used to quote fields containing special characters, such as the *delimiter* or *quotechar*, or which contain new-line characters. It defaults to "".
 - Quoting: Controls when quotes should be generated by the writer and recognised by the reader. Default = QUOTE_MINIMAL
 - Lineterminator: The string used to terminate lines produced by the <u>writer</u>. It defaults to '\r\n'.

CSV file

- Import csv
- reader = csv.reader(fh, delimiter=',', quotechar='|')

Tổng kết bài học

- File open
- File read
- File write
- Zip file
- CSV file
- Folder/file in OS module