

PHÁT TRIỂN CÔNG CỤ AN NINH: XỬ LÝ FILE VỚI PYTHON

Open and access a file

- Python has some built-in functions for dealing with files
- Can open a file and read what is inside.
- Can write a file. That file could be a text file or a picture.
- Each time we use the `open()` method and pass the mode as an argument. For reading a file we write “r” and for write we use “w”

Example

```
<code>
```

```
infile = open('files.txt', 'r')
```

```
outfile = open('new.txt', 'w')
```

```
for line in infile:
```

```
    print(line, file=outfile)
```

```
print("Done")
```

```
</code>
```

<code>

```
BufferSize = 500000
```

```
infile = open('files.txt', 'r')
```

```
outfile = open('new.txt', 'w')
```

```
buffer = infile.read(BufferSize)
```

```
while len(buffer):
```

```
    outfile.write(buffer)
```

```
    print("It is copying, it might take some  
time...please wait....", end='')
```

```
    buffer = infile.read(BufferSize)
```

```
print()
```

```
print("Copying Done.")
```

</code>

Access binary file

- Reading and writing binary file is the same. All you need to do is change the mode from “r” to “rb” and change the mode from “w” to “wb”.

Example

```
BufferSize = 5000000
infile = open('home.jpg', 'rb')
outfile = open('newimageofHome.jpg', 'wb')
buffer = infile.read(BufferSize)
while len(buffer):
    outfile.write(buffer)
    print("It is copying an image, it might take
some time...please wait....", end='')
    buffer = infile.read(BufferSize)
print()
print("Copying Done.")
```

Bài tập

- Viết chương trình tạo file solieu.txt ghi vào file các hàng chứa các số với giá trị bất kỳ.
- Viết thủ tục mở file solieu.txt, cộng các số trong một hàng và xuất kết quả ra file linetotal.txt