

File Introduction

file-handler=open(filename, mode)

What are files ?

- Files are used permanently in our laptop or computer is in hard disk drive(HDD)
- on this hard disk we stored the data in the form of files

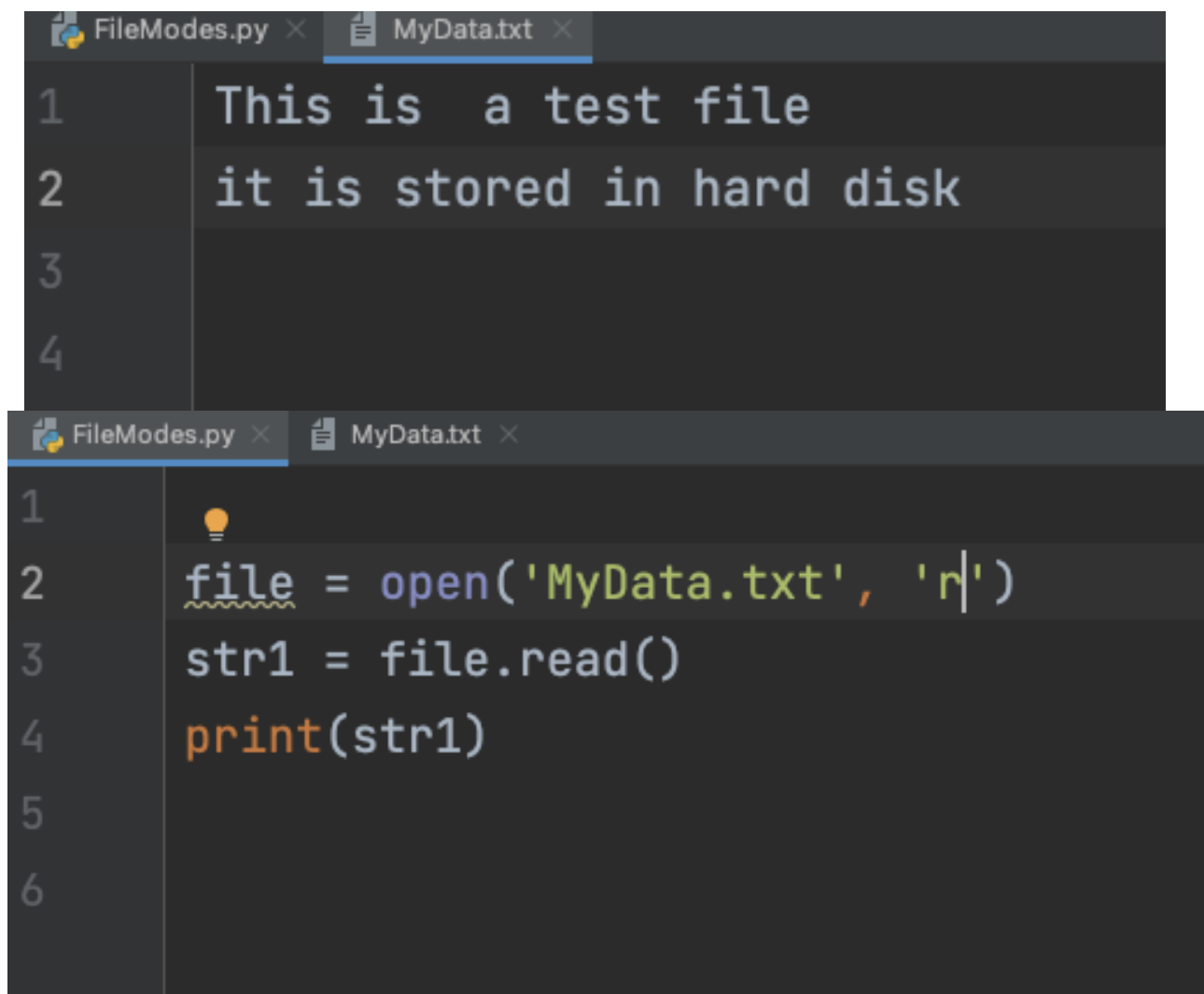
What type of Data is stored in files

- It can be stored in the form of text, image files, audio files or a movie file.
- Files on the hard disk can be identified by their names.
- And located at some place where we required path
- If we know the file. The program can access the file using path.

How to read the data from file

Program:

Input:



The image shows two screenshots of a code editor. The top screenshot displays the content of a file named 'MyData.txt', which contains two lines of text: 'This is a test file' and 'it is stored in hard disk'. The bottom screenshot shows a Python script named 'FileModes.py' with the following code: a lightbulb icon on line 1, line 2 contains `file = open('MyData.txt', 'r')`, line 3 contains `str1 = file.read()`, and line 4 contains `print(str1)`. The editor has tabs for both 'FileModes.py' and 'MyData.txt' at the top.

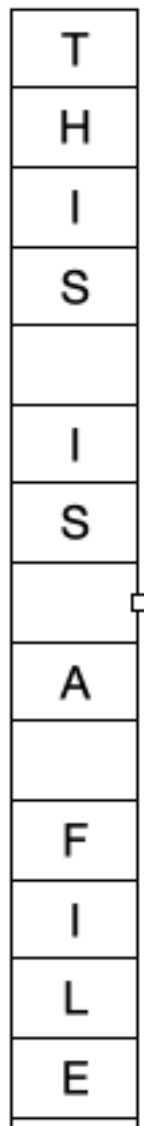
```
1 This is a test file
2 it is stored in hard disk
3
4
```

```
1
2 file = open('MyData.txt', 'r')
3 str1 = file.read()
4 print(str1)
5
6
```

Output:

This is a test file
it is stored in hard disk

What is file Pointer:



- Imagine this list as a long strip of characters we can also call it as an array of characters.
- File pointer keeps on moving until the last read and moves to the next character
- File pointer starts at beginning and ends at the end of file.

Program:

Input:

```
file = open('MyData.txt', 'r')
str1 = file.read(6)
print(str1)
str1=file.read(10)
print(str1)
```

Output:

This i
s a test

- Whenever a person opens a file one should make sure to close it properly.
file_handler.close()
- File is like a resource for a program
- File is an external part of program not a core part of program