



# LEARN PYTHON & R FOR BIOINFORMATICS

## Introduction:

In Python, there is no need for importing external library to read files, python provides built-in functions for reading files from PC by just providing the absolute path of the file or by providing the relative path.

## Python File Reading Methods

**file.read(n)** – This method reads n number of characters from the file, or if n is blank it reads the entire file.

**file.readline(n)** – This method reads an entire line from the text file.

## Steps:

### To read a file in relative path.

- Make a new folder and paste the file in it that you want to read.
- Open the VS code, make a new python file and save this file in the same folder in which you saved the file that you want to read.

### Now start writing a script.

- Declare the handler *letsRead* .
- Use the function *open("filename", "read mode(r)")* to open the file.

```
letsRead = open("EONA.fasta", "r")
```

- It opens a file with name of *"EONA.fast"*.
- Declare the variable *myData* to store the data.
- Now call the read function with the handler and store the value in the declared variable.

```
myData= letsRead.read()
```

- Call the print function to print the data that is in the *EONA.fasta* file.

### To read a file in absolute path

- Save the python and the file that you want to read in different folders/locations.
- Open the python file.
- Declare the handler *letsRead*.
- Now open the folder in which you pasted the file that you want to read.
- Copy its address.
- Open the VS code file in which you're writing the script.
- Use the function *open("filename", "read mode(r)")* to open the file.
- Paste the address in open function at the place of file name.

```
letsRead = open("C:/Users/twDig/Desktop/EONA.fasta", "r")
```

- It opens file with name of *"EONA.fast"*.
- Declare the variable *myData* to store the data.
- Now call the read function with the handler and store the value in the declared variable.

***myData= letsRead.read()***

- Call the print function to print the data that is in the ***EONA.fasta*** file.

**Summary:**

In this video we discussed the script to read data from files by providing relative path and absolute path. We also discussed the different function to read the file data.