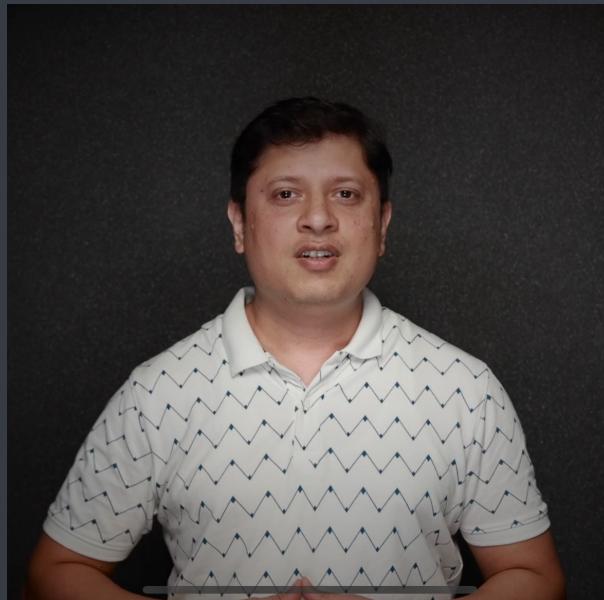


# Full stack web development using python

## File Handling



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# Agenda

- ① Data
- ② Life of data
- ③ File
- ④ File Handling
- ⑤ Types of files
- ⑥ Steps
- ⑦ File opening modes
- ⑧ Implementation

## Data

- Data is any piece of information
- Computer program needs data to process.
- Data processing is usually a multi step task.
- During data processing , data needs to be preserved somewhere.
- We make variables to store this data

## Life of data

- Life of data depends on the life of the variable.
- On the basis of scope variables are of four types
  - Global variables
  - local variables
  - instance object variables
  - class object variables

## File

When you want data to persist even beyond the life of the program, you need to store it in secondary storage.

Data store in files in secondary storage like hard disk, SSD, pendrive or memory card.

## File Handling

File has a name, extension and location in the storage device.

You need to transfer data from your program to a file or from file to your program. The code which is used to perform such operations or anything related to file is a task known as file handling.

## Types of files

- ① Text Files
- ② Binary Files

## Steps to perform

1. open a file
2. Read / Write
3. close a file

## File Opening Modes

r

FileNotFoundException when file not found, can read only

w

Create file if not exists, erase old data, write from the begining, write only

a

Append, create if file not exists, write only

r+

FileNotFoundException when file not available, read & write

w+

Write and read, create file when not exist, erase old data

a+ Append, create file when not available, read and write

# File Handling coding

- ① Writing text in a file
- ② Appending text in a file
- ③ Reading text from a file and display  
on the screen
- ④ Searching a word in a file
- ⑤ Modifying data in a file
- ⑥ Deleting content of the file
- ⑦ Renaming a file
- ⑧ Removing a file