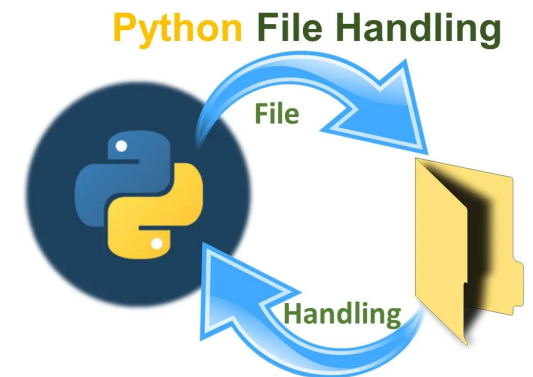


# FILE HANDLE

- What happen when we close the coding program (PyCharm, replit) ?
  - All the processed data disappear
  - You need to run the program again next time you open the coding program
  - It is time consuming, isn't it?
- To fix this issue, we store the processed data in a text file
  - Text file will be kept in HDD or SSD which are non-volatile memory, data will not disappear when turning off the computer
  - When you need the processed data, you could read from the file into your program



# FILE HANDLE (WRITE MODE)

- This mode will create a file in your computer and store data in it
- You will get a new file in your computer

```
1 fh = open("Number.txt", "w") # create Number.txt in write mode
2
3 for i in range(5): # repeat 5 times
4     fh.writelines(str(i) + "\n") # text file stores only string, but i is integer so convert it
5     # \n is new line tag, it is used to begin a new line
6
7 fh.close() # close file
```

# FILE HANDLE (READ MODE)

- This mode will open an existing file and read data from it

```
10 fh = open("Number.txt", "r") # open a file in read mode
11
12 line = fh.readline() # read one line of data and store in line variable
13 while line != "": # this is used to check if it reach the end of file
14     print(line) # show the data on screen
15     line = fh.readline() # read the next line
16
17 fh.close() # close file
```