#### Files

- · Arrays and variables are temperory memory so the data mill be lost if the program gets closed.
- B. Why do we need files?
- To store data permenantly.

Writing To a text file:

- · Writing to a text file means creating a text file.
- · All the previous data would be deleted and a file would be written from scratch.

# Pseudocode for Writing

```
OPENFILE "Filename" FOR WRITE
WRITEFILE "Filename", "string" / variable
CLOSEFILE Filename"
                                               School
Q- Store all the names which are present in an Array with 700
elements in a new file.
DECLARE School: ARRAY [1:700] OF STRING
DECLARE INDEX: INTEGER
OPEN "Names. txt" FOR WRITE
FOR Index = 1 TO 700
```

WRITEFILE Names. txt", School [ Index]

END FOR

CLOSE FILE Names. +xt

### Appending to a File

· sometimes we may wish to add data to an existing file rather than creating a new file

· It adds data at the end of an existing file.

## Pseudocode for Appending File

OPENFILE "Filename" FOR APPEND

WRTEFILE "Filename", "string" / variable

CLOSEFILE Filename"

### Reading a File

· Whenever you want to search something from an existing file we use "FOR READ"

### Pseudocode for Reading

File

- File consists of

Lines

OPENFILE "Filename" FOR READ

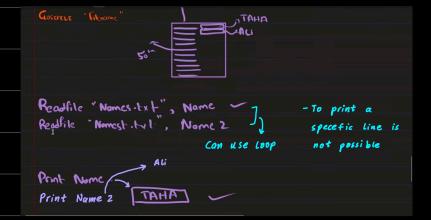
READFILE "Filename", variable -> Reads a line and stores all the

CLOSEFILE Filename"

- Read file always start from

1st line

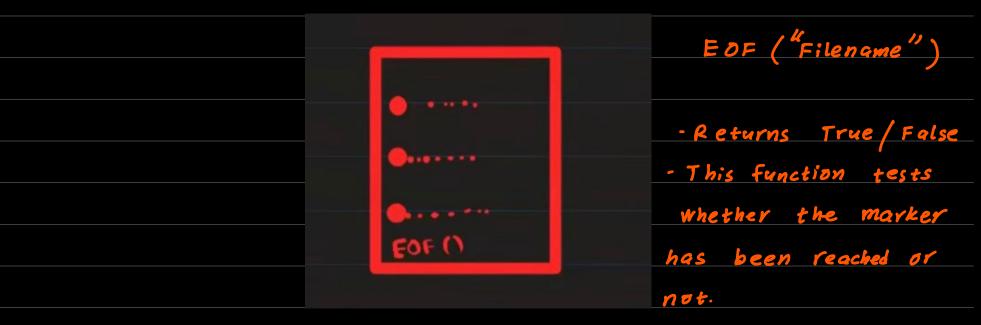
- No need to specify line



Q- There is an existing file known as sample.txt, print all of its content and it contains 500 lines. DECLARE Line : INTEGER DECLARE Filedata: STRING · OPEN FILE "Sample . txt" FOR READ FOR line = 1 To 500 READFILE "sample.txt", Filedata PRINT Filedata ENDFOR

### Concept of EDF

· IF you want to read a file from beginning to end and you don't know how much lines one file contains we use a conditional loop.



· Text files contain a special marker at the end of a file that we can test for.

```
Q- Read a File "Sample.txt" and print all its contents
DECLARE Filedata: STRING
OPENFILE "Sample .txt" FOR READ
WHILE NOT EOF ("Sample .txt") DO -> WHILE EOF ("Filename") = False
READFILE "Sample·txt", Filedata
   PRINT Filedata
END WHILE
O-There is a music file and it contains data about CD on each line.
Format is: Title Artist Name Location
         40 characters 40 characters 8 characters
E.g. kind of Green Miles Colfrane Fock 3-23

Title Artist name Location
User will input location and you have to search that Location
```

and then print the title and artist name and how many CO's are related to that location with suitable message.

OECLARE CO: INTEGER

DECLARE Location, Music Oata, Music location, Title, Artist: STRING

· OPENFILE "My music . txt" FOR FEAD

CD = 0

Input Location

WHILE NOT EOF ("Mymusic.txt") DO

READFILE "Mymusic. tx+", Music Data

Music Location = RIGHT (Music Data, 8)

IF Music Location = Location

THEN

Title = LEFT (Music Data, 40)

Artist = MID (Music Data, 41, 40)

C0 = C0 + 1

PRINT "Artist Name: " & Artist
PRINT "Title: " & Title
ENO IF
ENOWHILE
PRINT "CO's related to the Location: ", CO
CLOSEFILE "Mymusic·tr+"