

Files & File Handling in C

FILE $\xrightarrow{*fptr, "}$ Structure
 pointer \downarrow location

Modes:

- \rightarrow read \rightarrow "r"
 - \rightarrow read binary \rightarrow "rb" binary files
 - \rightarrow write \rightarrow "w" write binary
 - \rightarrow append "a" [Non-volatile memory]
- Hard Disk

Paths :

① Absolute Path \rightarrow

Starts from the root directory

② Relative Path \rightarrow

Starts from the current directory

AP

C:/Users/Samar/.../f.txt

RP JIT / JIT.txt

Read Mode \rightarrow File Not available
 "r"

Error

Write Mode \rightarrow File Not available
 "w"

New file created

* How to find the square root of a number using Binary Search.

[Search Space]
 64 = 8
 36 = 6 ?

Dry Run \rightarrow n = 36

0 — 36 \rightarrow 6
 Search Space

0 36
 s e

$$m = \frac{s+e}{2} = \frac{36}{2} = 18$$

$$18 \times 18 = 324 \neq 36$$

$$e = m - 1$$

$$18 - 1$$

0 — 17

0 — 7

$$\frac{0+17}{2}$$

$$= 8$$

$$3 \times 3 = 9$$

0 1 2 3 4 5
 2 1 10 13 18 19

64

ans = mid = 3

$$\downarrow 3 \times 3 = 9$$

$$s = m + 1$$

$$36$$

4 7

$$\frac{4}{2} = 5$$

6 7