Instructor:

**BRIJ MOHAN**
Hansraj College,
University of Delhi, Delhi.

# ▼ Understand File Paths

On Windows, use double backslashes ("C:\\Users\\User\\file.txt") or a single forward slash ("C:/Users/User/file.txt").

On macOS/Linux, use normal forward slashes ("/home/user/file.txt").

# ▼ Changing the Directory

You can check the current working directory
*currentdir*( )

$$\text{"C:\Program Files\Maple 2025"} \tag{2.1}$$

First one need to change the working directory
*currentdir*("C:\\Users\\admin\\OneDrive\\Desktop");

$$\text{"C:\Users\admin\OneDrive\Desktop"} \tag{2.2}$$

# ▼ Working with Files
# (# is used for making comments)

*# Open a file for writing (creates or overwrites the file)*
$file := fopen(\text{"myfile.txt"}, WRITE);$

*# Write some data*
$fprintf(file, \text{"Hello, Maple!\n"});$
$fprintf(file, \text{"The result of } 2+2 \text{ is \%d\n"}, 2+2);$

*# Close the file*
$fclose(file);$

$$file := 0$$
$$14$$
$$23 \tag{3.1}$$

Now file has been created, so we can open to read.
*# Open the file for reading*
$file := fopen(\text{"myfile.txt"}, READ);$

*# Read a line at a time*
$line1 := readline(file);$
$line2 := readline(file);$

*# Close the file*
$fclose(file);$

*# Display the content*

$$line1, line2;$$

$$file := 0$$

$$line1 := \text{"Hello, Maple!"}$$

$$line2 := \text{"The result of } 2 + 2 \text{ is 4"}$$

$$\text{"Hello, Maple!", "The result of } 2 + 2 \text{ is 4"} \qquad \textbf{(3.2)}$$

# ▼ Checking for End of File

```
file := fopen("myfile.txt", READ);
while not feof(file) do
   line := readline(file);
   print(line);
end do;
fclose(file);
```

$$file := 0$$

$$line := \text{"Hello, Maple!"}$$

$$\text{"Hello, Maple!"}$$

$$line := \text{"The result of } 2 + 2 \text{ is 4"}$$

$$\text{"The result of } 2 + 2 \text{ is 4"}$$

$$line := 0$$

$$0 \qquad \textbf{(4.1)}$$

# ▼ Returning to Old Directory

$$currentdir(\text{"C:/Program Files/Maple 2025"});$$

$$\text{"C:\textbackslash Program Files\textbackslash Maple 2025"} \qquad \textbf{(5.1)}$$

You can change the directory to work on your files.