**🔹 Basic File Operations**

1. Write a Python program to create a new text file named test1.txt and write "Welcome to Python File Handling" inside it.
2. Write a program to open and read the contents of the file example3.txt and display it line by line.
3. What will happen if you open a file in 'w' mode when it already exists? Explain with an example.
4. Write a program that appends the text "Learning Python is fun!" to an existing file called example.txt.
5. Create a program that reads only the first 10 characters from a file and prints them.

**🔹 Using with Statement**

1. Write a program using the with statement to read a file called sample.txt and print its contents.
2. Modify the above program to count how many words are present in the file.

**🔹 File Object Methods**

1. Create a program that opens a text file and prints:
   * The current cursor position using tell()
   * Moves the cursor to the beginning using seek(0)
   * Reads the file again.
2. Write a program that writes a list of strings (["Python\n", "File\n", "Handling\n"]) into a file using writelines().

**🔹 Check and Delete Files**

1. Write a program that checks whether a file named data.txt exists in your system. If yes, print “File found”, else print “File not found.”
2. Write a program to delete a file named old\_data.txt safely — only if it exists.

**🔹 Handling File Exceptions**

1. Write a program to open a non-existing file using try-except and display a friendly message: "File not found, please check the path."
2. Modify the above program to handle both FileNotFoundError and PermissionError.

**🔹 Integration & Applied Practice**

1. Write a program to read data from input.txt, convert all text to uppercase, and write it into a new file called output.txt.
2. Write a Python program that reads a CSV file line by line and counts how many rows it has (don’t use pandas).