**File Handling in C++**

File handling in C++ refers to the process of reading from and writing to files. It involves various operations such as:

1. Opening a file: Creating a connection between the program and the file.
2. Closing a file: Terminating the connection between the program and the file.
3. Reading from a file: Transferring data from the file to the program.
4. Writing to a file: Transferring data from the program to the file.
5. Appending to a file: Adding data to the end of the file.

C++ provides several classes and functions for file handling, including:

1. fstream: A class that provides functions for reading and writing to files.
2. ifstream: A class that provides functions for reading from files.
3. ofstream: A class that provides functions for writing to files.

Some common file handling functions in C++ include:

1. open(): Opens a file for reading or writing.
2. close(): Closes a file.
3. read(): Reads data from a file.
4. write(): Writes data to a file.

File handling is used in various applications, such as:

1. Data storage and retrieval
2. Configuration files
3. Logging
4. File transfer
5. Text editing

By using file handling in C++, you can interact with files and perform various operations, making your programs more versatile and useful.

**Statements**

**1.**Write a C++ program to create a new text file and write some text into it.

**2.**Write a C++ program to open an existing text file and display its contents on the console.

**3.**Write a C++ program to count the number of lines in a text file.

**4.** Write a C++ program to count the number of words in a text file.

**5.**Write a C++ program to copy the contents of one text file to another.

**6.**Write a C++ program to find and replace a specific word in a text file.

**7.**Write a C++ program to append new data to an existing text file.

**8.**Write a C++ program to encrypt the contents of a text file using a simple encryption algorithm.

**9.**Write a C++ program to decrypt the contents of a text file encrypted using the above algorithm.

**10.**Write a C++ program to calculate the average of numbers stored in a file.