

35 Lecture - CS201

Important Subjective

- 1. What is a stream in C++?**
Answer: A stream is an abstraction that represents a sequence of data flowing between a program and an input/output device.
- 2. What are the three types of streams in C++?**
Answer: The three types of streams in C++ are input streams, output streams, and error streams.
- 3. What is the purpose of using stream manipulators in C++?**
Answer: Stream manipulators are used to modify the output formatting of streams, such as setting the width or precision of output data.
- 4. What is the difference between text mode and binary mode when opening a file stream in C++?**
Answer: Text mode is used for reading and writing text files, while binary mode is used for reading and writing binary files.
- 5. What is the difference between cin and getline() in C++?**
Answer: cin is used to read input data from the console, while getline() is used to read a line of input data from a file.
- 6. How can you open a file for writing in C++?**
Answer: You can open a file for writing in C++ by calling the open() function with the mode parameter set to "out" or "out | trunc".
- 7. What is the purpose of the flush() function in C++?**
Answer: The flush() function is used to clear the output buffer and ensure that any pending output data is written to the output device.
- 8. How can you check if an input operation has failed in C++?**
Answer: You can check if an input operation has failed by calling the fail() function on the input stream.
- 9. How can you read data from a stringstream in C++?**
Answer: You can read data from a stringstream in C++ by calling the str() function to get the stream's internal string buffer, and then using standard string operations to extract the data.
- 10. How can you write data to a file in binary mode in C++?**
Answer: You can write data to a file in binary mode in C++ by opening the file stream with the mode parameter set to "out | binary", and then using the write() function to write data in binary format.