

# Stream Member Functions and State

## Exercises

## open() and is\_open()

- Explain what the open() member of fstream does
- Explain what the is\_open() member of fstream does

Which of the following statements are true?

- A) By default, files are opened in text mode
- B) If we write 42 to a file, it will be stored as the number 42
- C) By default, output files are opened in "append" mode
- D) We pass the file mode as an optional second argument when opening the file

## Appending to Files

- Give an example of how to open a file in append mode
- What effect does this have? How does this differ from the usual way of opening a file?

## Appending to Files (contd)

- Create two files myfile1.txt and myfile2.txt (to follow your convention) which both contain some text, say, "abc"
- Write a program which
  - Opens myfile1.txt in the default mode and writes some text, such as "def" to it
  - Opens myfile2.txt in append mode and writes some text to it
- Run the program and compare the two files. Explain the results

## Binary Mode

- How does binary mode differ from the default text mode?
- Give some of the drawbacks of using binary mode
- Give an example where binary mode is needed

## Stream State Member Functions

- Name two member functions that can be used to check the state of a stream