

# File Modes Solutions

# File Modes

- What is meant by the term "file mode"?
  - File modes are different options that can be used when opening a file
- What are the default file modes?
  - By default, files are opened in text mode
  - Data is converted to text, using the ASCII code for each character
  - Output files are opened in truncate mode
  - Any previous data in the file is overwritten
  - New data will be written from the start of the file

# Appending to Files

- What is meant by append mode?
  - When an output file is opened in append mode, the existing data in the file is preserved
  - When data is written to the file, it will be stored after the data that was already there
- Write a program which opens a file in append mode
- Run the program and check that the file has been correctly handled

# Binary Mode

- What is meant by "binary mode"?
  - In binary mode, the data stored on disk will be identical to the data in memory

# Other Modes

- Briefly describe these file modes
- trunc
  - The file will be opened in truncate mode
- in mode
  - The file will be opened in input mode
- out mode
  - The file will be opened in output mode
  - The file will be opened in truncate mode, even if trunc is not specified
- ate
  - Similar to append, but output does not have to be written at the end of the file

# Combining Modes

- How can different file modes be combined?
  - We can combine modes by putting a vertical bar | between them