

Using file descriptors

Talk to a Teacher Project

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://www.sakshat.ac.in>

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Learning Objectives



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- ▶ **Assign an output file descriptor**



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- ▶ **Assign an input file descriptor**



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- ▶ **Assign an output file descriptor**
- ▶ **Assign an input file descriptor**
- ▶ **Close the file descriptor**



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- ▶ **Assign an output file descriptor**
- ▶ **Assign an input file descriptor**
- ▶ **Close the file descriptor**
- ▶ **With the help of some examples**



Prerequisite



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- Knowledge of Shell Scripting



Prerequisite

- ▶ Knowledge of **Shell Scripting**
- ▶ If not, for relevant tutorials please visit <http://spoken-tutorial.org>



System Requirements



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- ▶ **Ubuntu Linux 12.04 OS**



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- ▶ **GNU Bash version 4.2**



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- ▶ GNU Bash version 4.2
- ▶ **GNU Bash version 4 or above is recommended for practice**



Introduction



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- ▶ 0, 1 and 2 are the standard file descriptors for stdin, stdout and stderr



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- ▶ 0, 1 and 2 are the standard file descriptors for stdin, stdout and stderr
- ▶ File descriptors are used for i/o redirection



Syntax



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Syntax:

- ▶ `exec [File descriptor] > filename`



Summary



Summary

- ▶ **Assign the output file descriptor**



Summary

- ▶ **Assign the output file descriptor**
- ▶ **Assign the input file descriptor**



Summary

- ▶ **Assign the output file descriptor**
- ▶ **Assign the input file descriptor**
- ▶ **Close the file descriptor**



Assignment

- ▶ **Try to append few lines to a file `test.txt` using file descriptor**
- ▶ **Display the content of the file using file descriptor**



About the Spoken Tutorial Project

- ▶ Watch the video available at http://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- ▶ It summarizes the Spoken Tutorial project



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- ▶ If you do not have good bandwidth, you can download and watch it



Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- ▶ Conducts workshops using spoken tutorials
- ▶ Gives certificates to those who pass an online test
- ▶ For more details, please write to contact@spoken-tutorial.org



Acknowledgment

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- ▶ It is supported by the National Mission on Education through ICT, MHRD, Government of India
- ▶ More information on this Mission is available at

<http://spoken-tutorial.org/NMEICT-Intro>

