

Basics of awk command

Spoken Tutorial Project
National Mission on Education through ICT
<http://spoken-tutorial.org>

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Learning Objectives



Learning Objectives

- **awk** command



Learning Objectives

- ▶ **awk** command
- ▶ **Through some examples**



System Requirements



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- ▶ **GNU/Linux OS**



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- ▶ **GNU BASH v. 4.2.24**



System Requirements

- ▶ **GNU/Linux OS**
- ▶ **GNU BASH v. 4.2.24**
- ▶ **GNU BASH version 4 or above is recommended for practise**



Introduction



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- ▶ **awk** is a very powerful text manipulation tool



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- ▶ It is named after its authors
Aho, **W**einberger and **K**ernighan



Introduction

- ▶ **awk** is a very powerful text manipulation tool
- ▶ It is named after its authors
Aho, **W**einberger and **K**ernighan
- ▶ It can perform several functions



Introduction



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- It operates at the field level of a record



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- ▶ So, it can easily access and edit the individual fields of the record



Introduction

- ▶ It operates at the field level of a record
- ▶ So, it can easily access and edit the individual fields of the record
- ▶ For demonstration, we will use **awkdemo.txt**



Parameters



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- **awk** has some special parameters to identify individual fields of a line



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- ▶ **\$1(Dollar 1)** would indicate the first field



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Parameters

- ▶ **awk** has some special parameters to identify individual fields of a line
- ▶ **\$1**(Dollar 1) would indicate the first field
- ▶ Similarly, we can have **\$2, \$3** and so on, for respective fields
- ▶ **\$0** represents the entire line

Delimiter



Delimiter

- ▶ **A delimiter separates words from each other**



Delimiter

- ▶ A delimiter separates words from each other
- ▶ A delimiter can also be a single whitespace



Delimiter

- ▶ A delimiter separates words from each other
- ▶ A delimiter can also be a single whitespace
- ▶ To specify a delimiter, we have to give - **capital F** flag, followed by a delimiter



Summary

- ▶ To print using **awk**
- ▶ Regular expression in **awk**
- ▶ To list the entries for a particular stream
- ▶ To list only the second and the third fields
- ▶ To display a formatted output

Assignment

- ▶ **Display roll no., stream and marks of Ankit Saraf**



About the Spoken Tutorial Project

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



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- ▶ More information on this Mission is available at:

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

