

# Case Statement in Bash

**Talk to a Teacher Project**

<http://spoken-tutorial.org>

**National Mission on Education through ICT**

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

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IIT Bombay**

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# Learning Objectives



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- Importance of case statement



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- ▶ Importance of **case statement**
- ▶ **Syntax** of **case statement**



# Learning Objectives

- ▶ Importance of **case statement**
- ▶ Syntax of **case statement**
- ▶ **Example**



# Prerequisite



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- Knowledge on Basics of Shell Scripting



# Prerequisite

- ▶ Knowledge on **Basics 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 4.1.10**



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- ▶ **GNU Bash version 4.1.10**
- ▶ **GNU Bash version 4 or above is recommended for practice**



# case statement



# case statement

- ▶ The Bash shell has two forms of conditional statements



# case statement

- ▶ The Bash shell has two forms of conditional statements
- ▶ **if** statement and **case** statement



# case statement

- ▶ The Bash shell has two forms of conditional statements
- ▶ **if** statement and **case** statement
- ▶ **case** statement can be alternately used in place of **if-else** statement





# case statement



# case statement

- Is preferred when there are many items to select



# case statement

- ▶ Is preferred when there are many items to select
- ▶ Used to implement **menus** in a script



# case: syntax



# case: syntax

```
case $VARIABLE in
    match_1) commands
        ;;
    match_n) commands
        ;;
    *) command_to_execute_by_default
        ;;
esac
```



# Working of case statement



# Working of case statement

- ▶ The **VARIABLE** is compared to



# Working of case statement

- ▶ The **VARIABLE** is compared to
  - ▶ **match\_1**





# Working of case statement

- ▶ The **VARIABLE** is compared to
  - ▶ `match_1`
  - ▶ `match_n`



# Working of case statement

- ▶ The **VARIABLE** is compared to
  - ▶ match\_1
  - ▶ match\_n
- ▶ If one of these strings match **VARIABLE**, the commands until the **::** are executed



# Working of case statement



# Working of case statement

- ▶ If neither match **VARIABLE**, the commands associated with **\*** are executed



# Working of case statement

- ▶ If neither match **VARIABLE**, the commands associated with **\*** are executed
- ▶ **It is the default case condition because \* matches all strings**



# Working of case statement

- ▶ If neither match **VARIABLE**, the commands associated with **\*** are executed
- ▶ It is the default case condition because **\*** matches all strings
- ▶ **esac** marks the end of case block



# Summary



# Summary

- ▶ Importance of **case statement**
- ▶ Syntax of **case statement**
- ▶ With the disc space example





# Assignment

Write a menu driven program for **mathematical calculation**

- ▶ It should take user inputs **a** and **b**
- ▶ It should ask for mathematical operator (**+**, **-**, **/** and **\***)
- ▶ Do the calculation
- ▶ Print the output



# About the Spoken Tutorial Project

- ▶ Watch the video available at [http://spoken-tutorial.org/What\\_is\\_a\\_Spoken\\_Tutorial](http://spoken-tutorial.org/What_is_a_Spoken_Tutorial)
- ▶ It summarizes the Spoken Tutorial project



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- ▶ It summarizes the Spoken Tutorial project
- ▶ 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](mailto:contact@spoken-tutorial.org)



# Acknowledgments

- ▶ Spoken Tutorial Project is a part of the Talk to a Teacher project
- ▶ 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>

