

More on functions

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



Learning Objectives

- ▶ **To pass an argument to a function**



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Learning Objectives

- ▶ **To pass an argument to a function**
- ▶ **Define local variable within a function**



Learning Objectives

- ▶ **To pass an argument to a function**
- ▶ **Define local variable within a function**
- ▶ **To define global variable in a function**



Learning Objectives

- ▶ To pass an argument to a function
- ▶ Define local variable within a function
- ▶ To define global variable in a function
- ▶ With the help of some examples



Prerequisite



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- ▶ Knowledge of **Shell Scripting**



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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**



Local and Global variables



Local and Global variables

- ▶ Variables can be declared as local variable and global variable



Local and Global variables

- ▶ Variables can be declared as local variable and global variable
- ▶ Local Variable:



Local and Global variables

- ▶ Variables can be declared as local variable and global variable
- ▶ Local Variable:
- ▶ **It's value will be valid within the function, in which it is defined**



Local and Global variables

- ▶ Variables can be declared as local variable and global variable
- ▶ Local Variable:
 - ▶ It's value will be valid within the function, in which it is defined
 - ▶ Local Variables are declared using keyword local



Local and Global variables



Local and Global variables

- ▶ Global variable:



Local and Global variables

- ▶ Global variable:
- ▶ **The value of a global variable can be accessed throughout the script**



Summary



Summary

- ▶ **To pass arguments to a function**
- ▶ **To declare Local variable in a function**
- ▶ **To declare Global variable in a function**
- ▶ **with the help of a few examples**



Assignment

Write a program,

- ▶ Where the `function` accepts two arguments
- ▶ The `function` should multiply the two arguments
- ▶ Make 3 function calls with arguments - $(1, 2)$, $(2, 3)$ and $(3, 4)$



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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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

- ▶ 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>

