

# More on functions

**Talk to a Teacher Project**

<http://spoken-tutorial.org>

**National Mission on Education through ICT**

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

**FOSSEE & Spoken Tutorial Team  
IIT Bombay**

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# Learning Objectives



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- To pass an argument to a function



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- ▶ **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





# 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](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)



# 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>

