

Friend Function in C++

Talk to a Teacher

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

Ashwini R Patil

IIT Bombay

10 January 2013



Learning Objectives



Learning Objectives

- ▶ Friend function



Learning Objectives

- ▶ **Friend function**
- ▶ We will do this with the help of an example



System Requirements



System Requirements

- ▶ Ubuntu OS v. 11.10



System Requirements

- ▶ **Ubuntu OS v. 11.10**
- ▶ **g++ Compiler v. 4.6.1**



Introduction to friend function



Introduction to friend function

- ▶ The private data is not accessible outside the class



Introduction to friend function

- ▶ The private data is not accessible outside the class
- ▶ To access the private data we use friend function



Introduction to friend function

- ▶ The private data is not accessible outside the class
- ▶ To access the private data we use friend function
- ▶ A friend function is not a member function of the class



Introduction to friend function



Introduction to friend function

- ▶ Friend function can be invoked without using an object



Introduction to friend function

- ▶ Friend function can be invoked without using an object
- ▶ The argument passed in the friend function is used as its object



Declaration



Declaration

- ▶ friend return_type
function_name(class_name object)



Summary

- ▶ Friend function
 - ▶ eg. `friend int compute(frnd f1);`



Assignment

- ▶ Write a program to find out the square and cube of a number



About the Spoken Tutorial Project

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



About the Spoken Tutorial Project

- ▶ Watch the video available at http://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- ▶ It summarises 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



Acknowledgements

- ▶ 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>

