If Else Construct

Talk to a Teacher
http://spoken-tutorial.org
National Mission on Education through ICT
http://sakshat.ac.in

TalentSprint
http://www.talentsprint.com

12 April 2012

Learning Objectives

- **About conditional statements**

Learning Objectives

- **About conditional statements**
- **Types of conditional statements**

Learning Objectives

- **About conditional statements**
- **Types of conditional statements**
- **To use conditional statements**

Tools Used

Tools Used

- **Ubuntu 11.10**

Tools Used

- Ubuntu 11.10
- JDK 1.6

Tools Used

- Ubuntu 11.10
- JDK 1.6
- Eclipse 3.7.0

Pre-requisites

- **Arithmetic, Relational & Logical Operators.**

- **Arithmetic, Relational & Logical Operators.**

- **For relevant tutorials please visit our website http://spoken-tutorial.org**

Conditional Statements

Conditional Statements

- **Perform different actions for different decisions**

Conditional Statements

- Perform different actions for different decisions
- **Control the flow of execution of a program**

- **if statement**

Types of Conditional Statements

- **if statement**
- **if...else statement**

Types of Conditional Statements

- if statement
- if...else statement
- **if...else if statement**

Types of Conditional Statements

- if statement
- if...else statement
- if...else if statement
- **nested if statement**

Types of Conditional Statements

- if statement
- if...else statement
- if...else if statement
- nested if statement
- switch statement

If Statement

If Statement

- **Executes a block of statements based on a condition**

If Statement

- Executes a block of statements based on a condition
- It is called a single conditional statement

Syntax for If statement

Syntax for If statement

```
if (condition)
{
code_block;
}
// end of if construct
// program continues here
```

If...Else Statement

If...Else Statement

- **Execute alternative statements.**

If...Else Statement

- **Execute alternative statements.**
- **Based on a single condition.**

Syntax for If...Else statement

```
if ( <condition> )
<statement_or_block>
else
<statement_or_block>
// end of if construct
// program continues here
```

If...Else If Statement

If...Else If Statement

- **Execute various set of statements**

If...Else If Statement

- Execute various set of statements
- These are based on the two given conditions

If...Else If Statement

- Execute various set of statements
- These are based on the two given conditions
- Add more conditions based on your requirement

If...Else If Statement

- **Execute various set of statements**
- **These are based on the two given conditions**
- **Add more conditions based on your requirement**
- **It is called as a branching or decision making statement**

Syntax for If...Else If statement

Syntax for If...Else If statement

```
if ( <condition 1> )
      <Statement_or_block 1>

else if (<condition 2>)
        <Statement_or_ block 2>
else
        <Statement_or_block 3>
```

Points to Remember

- **Add a semicolon while terminating a statement**

Points to Remember

- **Add a semicolon while terminating a statement**
- **Do not add semi-colons after the condition**

Points to Remember

- **Add a semicolon while terminating a statement**
- **Do not add semi-colons after the condition**
- **Add the block of code within curly braces**

Points to Remember

- **Add a semicolon while terminating a statement**
- **Do not add semi-colons after the condition**
- **Add the block of code within curly braces**
- **Curly braces are optional if the block contains a single statement**

Summary

- **Conditional statements**

Summary

- **Conditional statements**
- **Types of conditional statements**

Summary

- **Conditional statements**
- **Types of conditional statements**
- **Usage of if, if...else and if...else if statements**

Assignment

Assignment

- **Compare two numeric values**
  Hint : use if statement

Assignment

- **Compare two numeric values**
  Hint : use if statement

- **Check whether the given number is even or odd**
  Hint : use if...else statement

Assignment

- **Compare two numeric values**
  Hint : use if statement

- **Check whether the given number is even or odd**
  Hint : use if...else statement

- **Find the biggest number among the three numbers**
  Hint : use if...else if statement

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**

About the contributor

- **This script has been contributed by TalentSprint.**
- **Website: www.talentsprint.com**
- **Thanks for joining**