

Static Blocks

Spoken Tutorial Project

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

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Learning Objectives



Learning Objectives

We will learn



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- **What are static blocks**



Learning Objectives

We will learn

- What are **static blocks**
- **How to declare static blocks**



Learning Objectives

We will learn

- What are **static blocks**
- How to declare **static blocks**
- **How to use static blocks**



Software Requirements



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- **Ubuntu 14.04**



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- **JDK 1.7**



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- **Ubuntu 14.04**
- **JDK 1.7**
- **Eclipse 4.3.1**



Prerequisite



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- **Basic knowledge of Java and Eclipse IDE**



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- Basic knowledge of **Java** and **Eclipse IDE**
- **Knowledge of instance variables, static variables and static methods in Java**



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- Basic knowledge of **Java** and **Eclipse IDE**
- Knowledge of **instance variables**, **static variables** and **static methods** in Java
- For relevant tutorials, please visit <http://www.spoken-tutorial.org>



Static Blocks



Static Blocks

- **A Static block is mostly used for initializing values of static variables**



Static Blocks

- A **Static block** is mostly used for initializing values of **static variables**
- A **static block** is declared using the **static keyword**



Static Blocks

- A **Static block** is mostly used for initializing values of **static variables**
- A **static block** is declared using the **static** keyword
- **Static blocks are executed when the class is loaded in memory**



Static Blocks



Static Blocks

- **Static blocks** are invoked before **constructors**



Static Blocks

- **Static blocks** are invoked before constructors
- **Instance variables cannot be accessed inside static blocks**



Static Blocks



Static Blocks

- **There can be multiple static blocks inside a class**



Static Blocks

- There can be multiple **static blocks** inside a **class**
- **They are called only once in the order that they appear in the source code**



Summary

- What is a **static block**
- How to declare and define a **static block**
- How **static blocks** are invoked and executed



Assignment

- Design a class **CarService** to represent a Car Service Station
- This class should contain variables to represent the following
 - **Name** of the Service Station
 - Car **make, model, regno** and **status**
 - **No of Cars in** for Service
 - **No of Cars out** after Service



Assignment

- Identify the **instance variables** and **static variables**
- Define a **constructor** to initialise the values for **instance variables**
- Define a **static block** to initialize the values of **static variables**



Assignment

- Also create a Demo class containing the main method
 - Create a few objects of **CarService**
 - Invoke the **show()** method using all the objects and verify the results



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



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- More information on this Mission is available at <http://spoken-tutorial.org>



[/NMEICT-Intro](http://spoken-tutorial.org/NMEICT-Intro)



About the contributor

- This script has been contributed by:
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- Thanks for joining

