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Agenda

- Installation
- History
- Buzz Words
- Hello world
- Data types
- Operators
- Widening
- Narrowing

Installation

- 1. Install JDK
- 2. Install STS

Install both of them from the links provided in the pdf.

Java BuzzWords

- 1. Simple
- 2. Secure
- 3. Portable
- 4. Object Oriented
- 5. Robust
- Architecture Netural(Platform Independent)
- 7. Multithreading
- 8. Interpreted
- 9. High Performance
- 10.Distributed
- 11.Dynamic

History of Java

Java Platforms

- Java SE - Standard Edition

Core java

- Java EE Enterprise Edition
- Java ME Micro Edition
- Java Card

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SDK,JDK,JRE,JVM

- SDK Software Development Kit Development Tools + Documentation + Libraries + RunTime Environment
- JDK Java Development Kit
 - Developemnt Tools + Documentation + Libraries + RunTime Environment
- JRE Java Runtime environment rt.jar + JVM
- JVM Java Virtual Machine An engine which helps to execute the java code. We can also call it as Execution Engine

Datatypes

- It defines 3 things
- 1. Memory
 - How much memory is required to store that data.
- 2. Nature
 - What kind of data i can store
- 3. Operations
 - What all operations we can perform on these data
- Datatypes are classified into 2 types
 - 1. Primitive (value Type) byte, short, int, long, float, double, char, boolean
 - 2. Non Primitive (Reference Type) class, Array, Interface

Wrapper classes

- For every primitive datatype java have defined a class.
- These clases are called as wrapper classes.
- All wrapper classes are final classes
- All wrapperclasses are declared in java.lang package

Widening

- a process of converting narrower type of data into wider type is called as widening
- No need of explicit Typecasting

Narrowing

- a process of convertinf wider type oda data into narrower type is called as narrowing

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- It is a forced conversion.
- Explicit Typecasting is required.

Operators

1. Arithmetic Operators

2. Unary Operators

3. Relational Operators

4. Bitwise Operators

5. logical operators

6. Assignment Operator

7. Shift operator