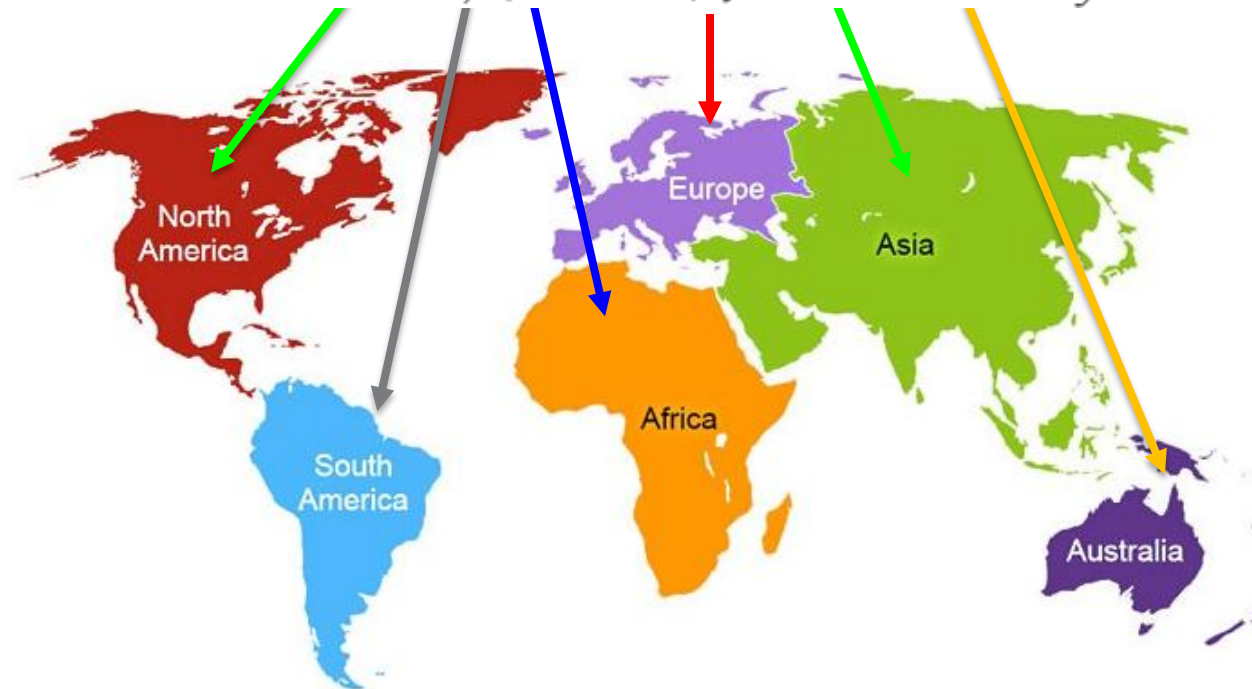




H2K Infosys, LLC
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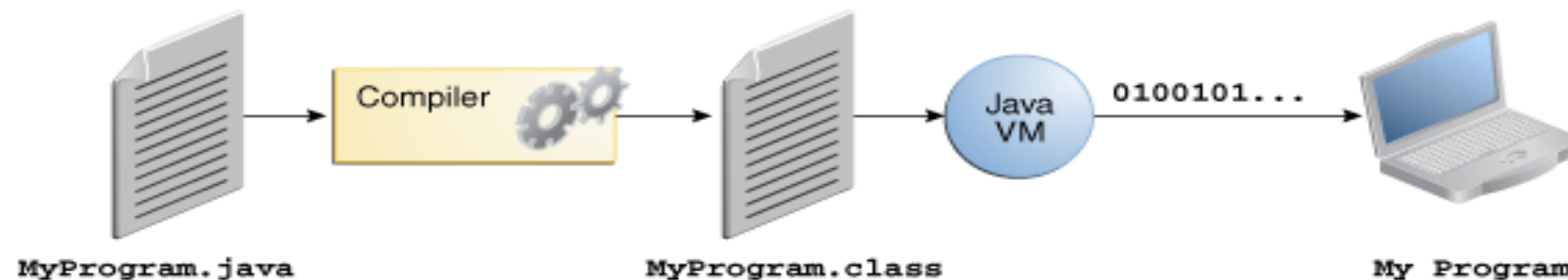
- Rishi
- 14 Years of Java Working Experience. Currently Technical Architect for Retail Giant in US.
- 5+ Years of Teaching Experience.
- 5 Years of Experience as Technical Panel for Interviews.
- Based in Atlanta.
- Love reading and travelling.

What is JAVA?

- Java is a programming language and computing platform first released by Sun Microsystems in 1995.
- There are lots of applications and websites that won't work unless you have Java installed, and more are created every day.
- Java is Simple. Fully Object Oriented and robust.
- Java is fast, secure, and reliable.
- Java is free to download. Get the latest version at <http://java.com>.
- Java is everywhere. Java has a very vibrant open source community.
- Java technology is both a programming language and a platform

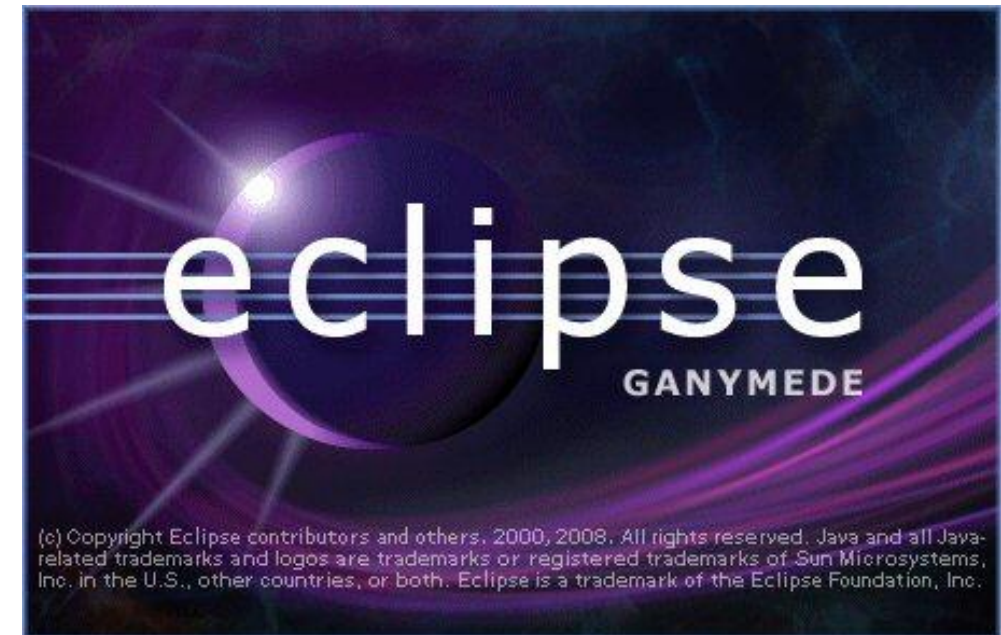
To Start Java Development

- Java Program → Compile → Run
- JRE – Java Runtime Environment
- JVM – Java Virtual Machine
- JDK Architecture
- Java API (Application Programming Interface)
- Java Basics – which will create the base for further learning
-



To Do Core Java Development

- Object Oriented Programming – Backbone of Java Programming
- Java Data Type, Controls, Loops, handling Conditions.
- Classes and Objects – Understanding vast concept of Object
- Overloading & Overriding – Understanding reusability
- Abstract classes and Interfaces – Understanding Abstraction
- Polymorphism – Understanding Parent – Child relation in Java
- Download, install and use most widely used IDE – Eclipse.



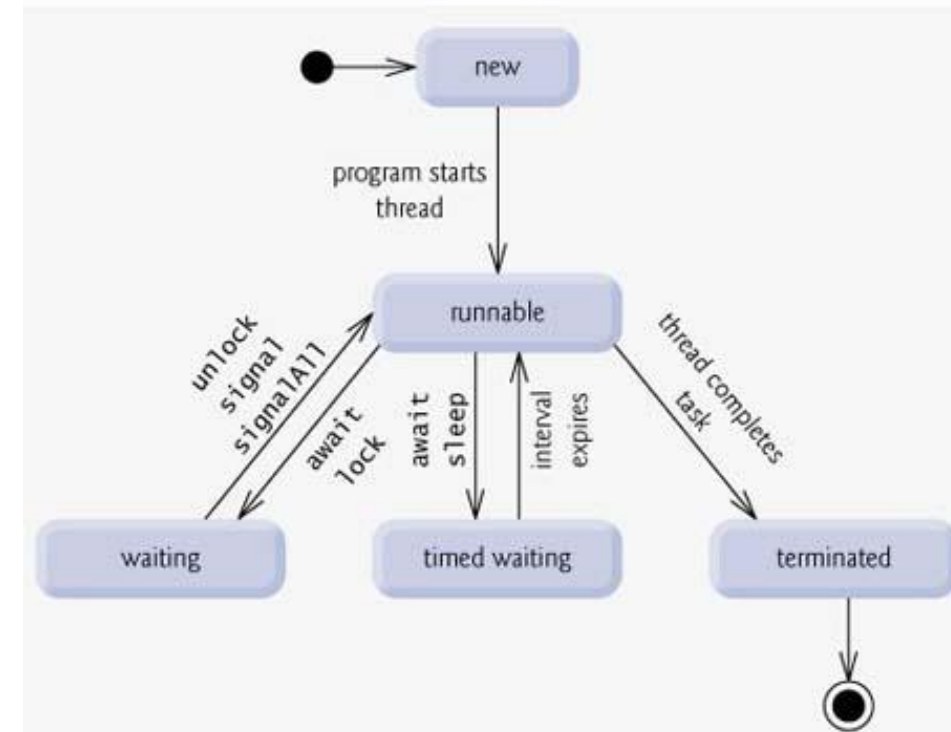
Do Some interesting work:

- Do multiple things at a time – **Multi-Threading**.
- Handle faulty scenario – **Exception Handling**
- Read and write Files with Java – **Learn IO Streams**
- Learn to Handle Data in efficient way – **Collections**.

Please note:

This is **not** just a theory class where you just have to hear and read. NO!!
Everyday we will take a problem and try to solve it with Java Technology.

We will try to solve it in the class. Also in multiple assignments you get.



- Servlets – Life cycle, Context, Config, Filters and Listeners and much more
- JSP – how its different than servlets, Tags, implicit Objects, EL Expressions and much more
- XML – Why, how, how to read them, How to parse them?
- **Struts MVC Framework**
 - Struts Architecture, MVC Overview
 - Using Struts Tag libraries
 - Struts Config
 - Validation plug-in
 - **Struts Assignment**
- We will go slow which will help you understand concepts thoroughly.



Understand Spring:

- Spring Overview
- Dependency Injection
- Spring Controller
- Spring framework handler configuration
- View Resolvers
- **Spring Assignment**



Understand Hibernate ORM Technology

- Hibernate Overview
- Hibernate Configuration
- Read and save data using hibernate Objects
- Hibernate Mapping and Examples
- **Hibernate Assignment**



Understanding Design Patterns:

- Somebody already solved your problems.- Design Patterns
- Singleton Pattern, Singleton, DAO, MVC, Façade, Command Pattern with Examples.

Understanding Web Services:

- Web Services Architecture
- WSDL, SOAP
- Testing web services with soapUI.
- Generating Web Service Client (Stub)
- Writing RESTful Web Services – Write and test a RESTful Web Service.
- **RESTful WS - Assignment**



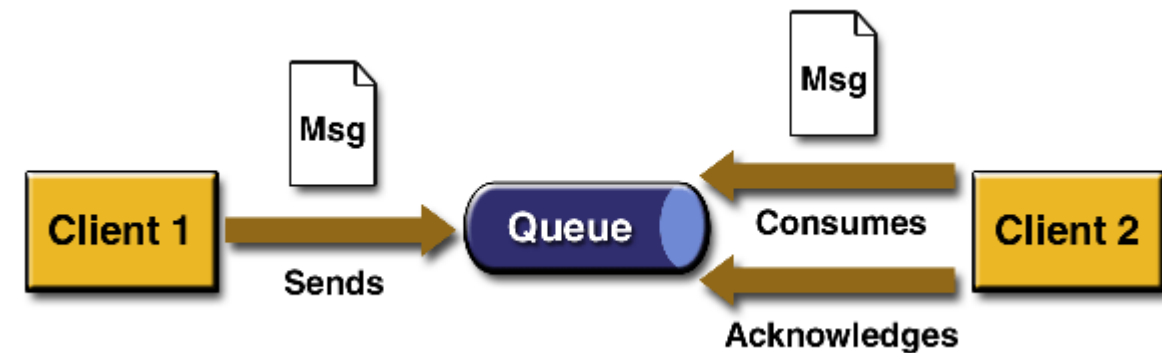
Understanding JNDI:

- JNDI Overview
- JNDI lookup and examples
- Write a JNDI Lookup for Tomcat Resource entry



Understanding JMS:

- JMS Architecture
- Understand use of Queues and Topics
- Understand Producer, Consumer, Receiver and Browser
- Sending and Receiving messages from Queue
- Use of ActiveMQ for testing JMS Code.



Using Log4j for Logging

Using Junit for writing Unit test cases

What is Version Control

- Introduction to CVS Version Control
- Introduction to SVN Version Control

Most Important: This is not just a theory class.
While understanding concepts, we will doing actual Java Coding in this class.

Why here? Why now?

Interview Tips and suggestions in class.

Unlimited mock interview

Personalized Suggestions on interview. Personalized Suggestions on class assignments

Student can attend the classes multiple times. Pay only one time fee.

Daily/Weekly assignments and review the assignments to make sure student properly worked on assignments.

Feasible Batch time..

Vibrant h2k forums to post technical questions.

And many more reasons we cant write in single slide..

Thank you

Your feedback is highly important to improve our course material and teaching methodologies. Please email your suggestions.

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