Java Programming

TEK RAJ CHHETRI

Course Objective

- Explain the Java programming environment
- Describe the concepts of programming elements using Java and object-oriented
- programming concepts
- Apply the exception handling and input/output in Java programming
- Apply the event handling, GUI programming using swing, and Java database connectivity

Unit 1: Introduction to Java

- Java Programming Platform
- The Java "White Paper" Buzzwords
- A Short History of Java
- Writing Simple Java Programs

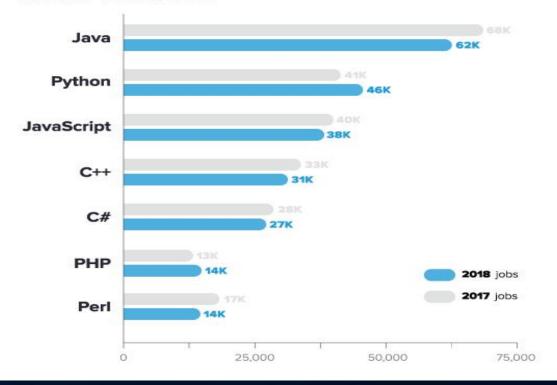
Learning Outcome (Unit 1)

- Develop understanding on java and its programming environment
- Ability to explain characteristics of java
- Develop understanding about program execution in java
- Ability to set up the environment for programming
- Ability to write and execute simple java program

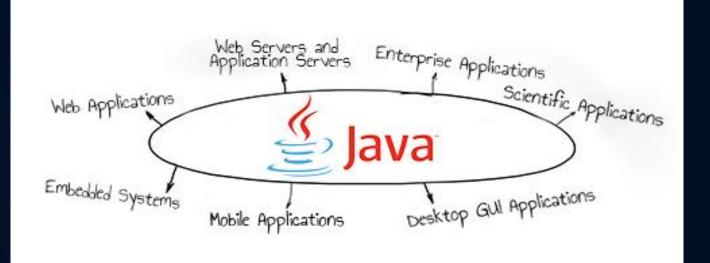


Job postings containing top languages

Indeed.com - November, 17th 2017



Is it Just because of demand?



Let's get Started

- "Most Popular" language
- Runs on a "Virtual Machine" (JVM) runs everywhere
- Object oriented

Java Buzzwords

- Simple
- Secure
- Portable
- Object Oriented
 - Encapsulation, Inheritance, Polymorphism
- Robust
- Multithreaded
- Architecture Neutral

Java Buzzwords

- High Performance
- Distributed
- Dynamic

History

- James Gosling and Sun Microsystems
- Oak
- Java, May 20, 1995, Sun World
- HotJava
 - The first Java-enabled Web browser
- JDK Evolutions

Before you Begin

- Install Java Software Development Kit
 - http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html
- Set the class path
 - https://docs.oracle.com/javase/tutorial/essential/environment/paths.html

And an Editor or an IDE

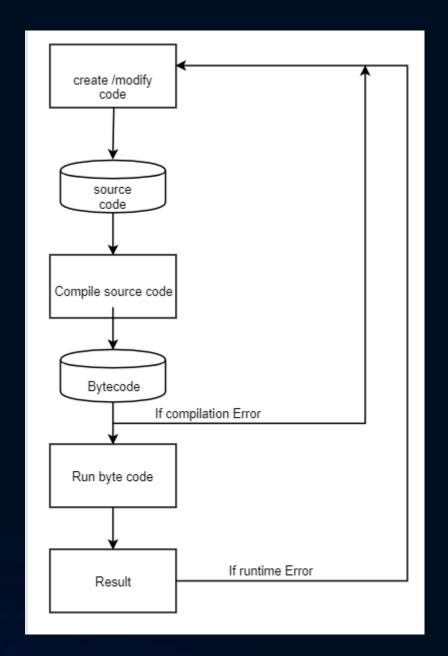
Writing Simple Java Program

```
class Hello{
 public static void main(String [] args){
       System.out.println("Hello");
O/p:
Hello
```

Writing Simple Java Program

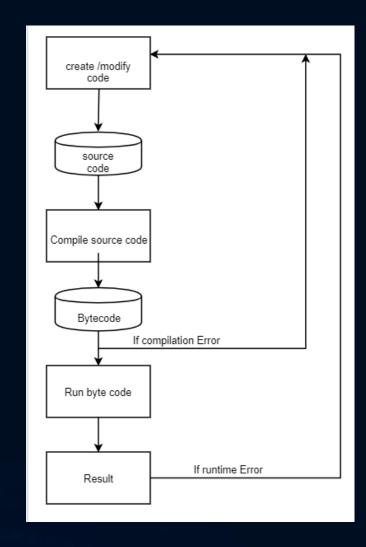
Compiling Java Program

- In Command Line
 - javac Class_Name.java



Running Java Program

- In Command Line
 - java Class_Name



Suggested Readings

- •The complete Reference Java 7 by Hebert Schildt (P 6 –P23)
- •https://docs.oracle.com/javase/tutorial/essential/environment/paths.html



References

- The complete Reference Java 7 by Hebert Schildt
- Java 8 in Action by Dreamtech press.
- Mit Opencourseware
- https://docs.oracle.com/javase/tutorial/?sess=16e492aba137894101940f7f88d9f51f
- https://images.google.com for Images