

Java Programming

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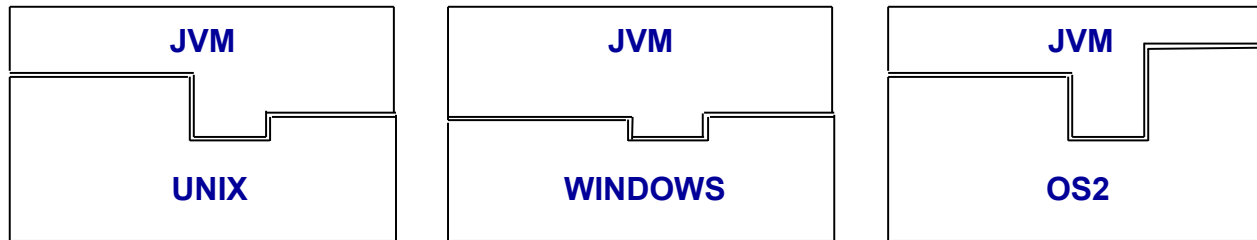
Introduction

What is Java?

- ❖ Java is a high-level, class-based, object-oriented and a general purpose programming language.
- ❖ The Java programming language was originally developed by James Gosling at Sun Microsystems and was released in 1995.

The Java Virtual Machine

- ❖ The JVM is an imaginary machine implemented using a software application that was developed specifically for a specific platform.



Simple Hello World

- ❖ The following is a simple java application that prints out a welcome message:

```
public class WelcomeGreeting
{
    public static void main(String args[])
    {
        System.out.println("Hello Students:");
        System.out.println("Good Luck!");
    }
}
```

Classes & Packages

- ❖ The classes (those that already exist and those that we develop) are grouped into packages.
- ❖ In order to assign a specific new class to specific package we should use the package statement.

Classes & Packages

- ❖ The package name should include the developer's domain name in a reverse order

```
package com.lifemichael.java.courses;
```

- ❖ The outcome of the package statement is an hierarchy of directories that match the hierarchy of the packages.

Java API Documentation

- ❖ A collection of HTML documents that describe the classes and the packages.
- ❖ The API documentation is created using the `javadoc` utility program.