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Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai*

Department of Computer Applications

Course Code: 23CAT606

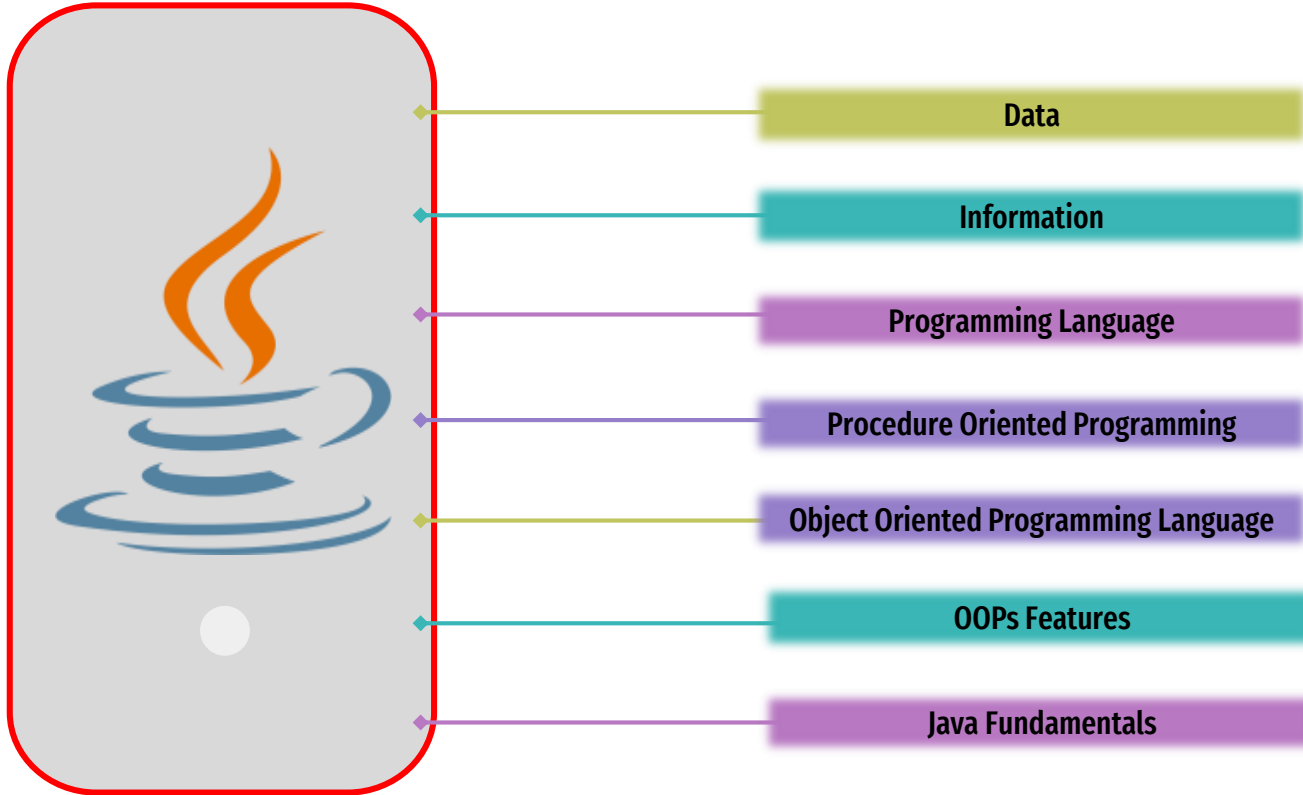
Course Name: Java Programming

Unit I: Java Fundamentals

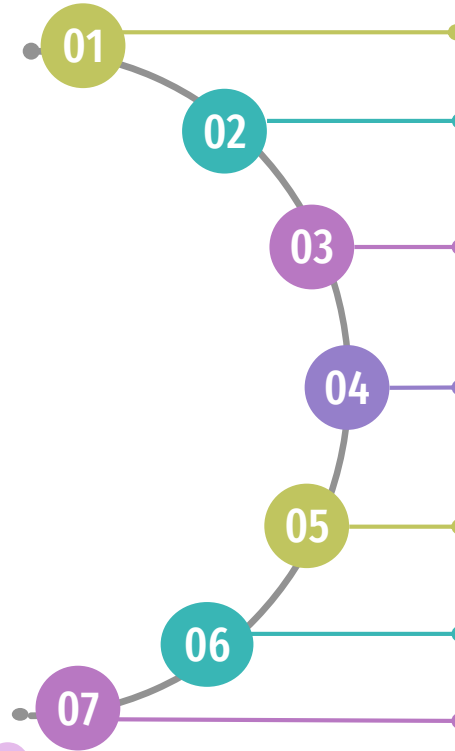
Topic 1: Java Features



Recall



Java Features



Object Oriented
Platform Independent

Secure & Robust

Multithreaded

High Performance

Dynamic

Simple

1. Object Oriented

Class

Object

Abstraction

Encapsulation

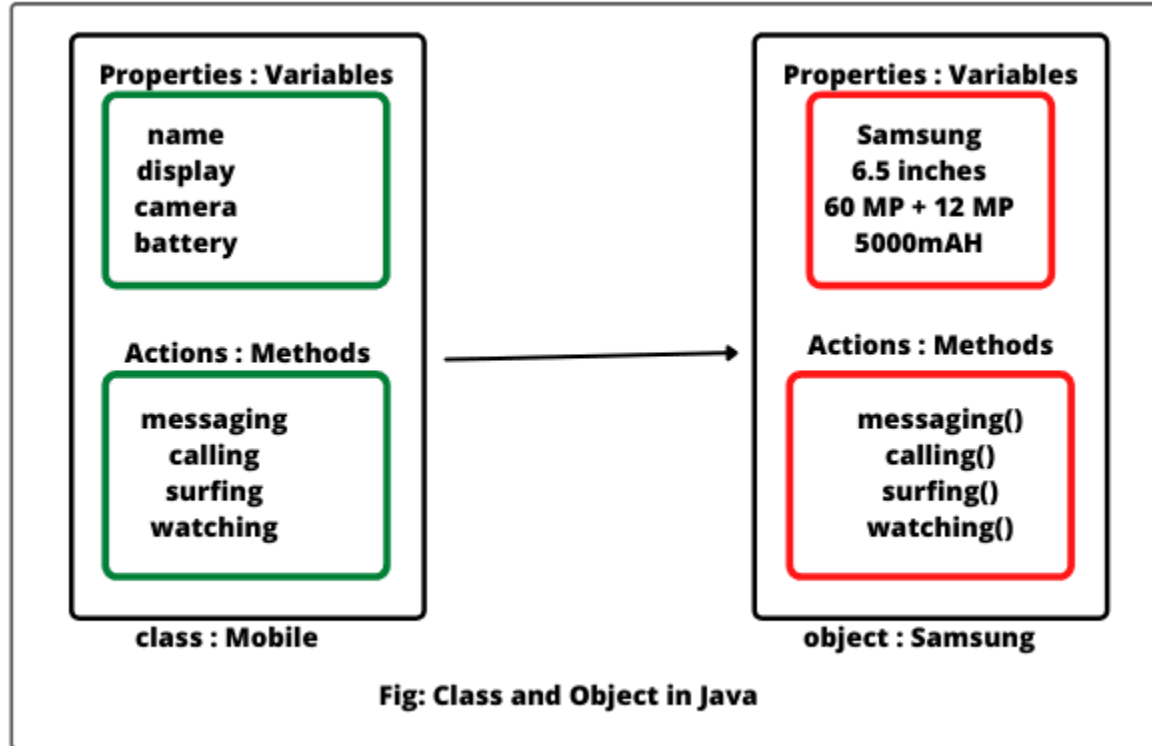
Polymorphism

Inheritance

Reusability

Message
Passing

Example: Class and Object



2. Platform Independent

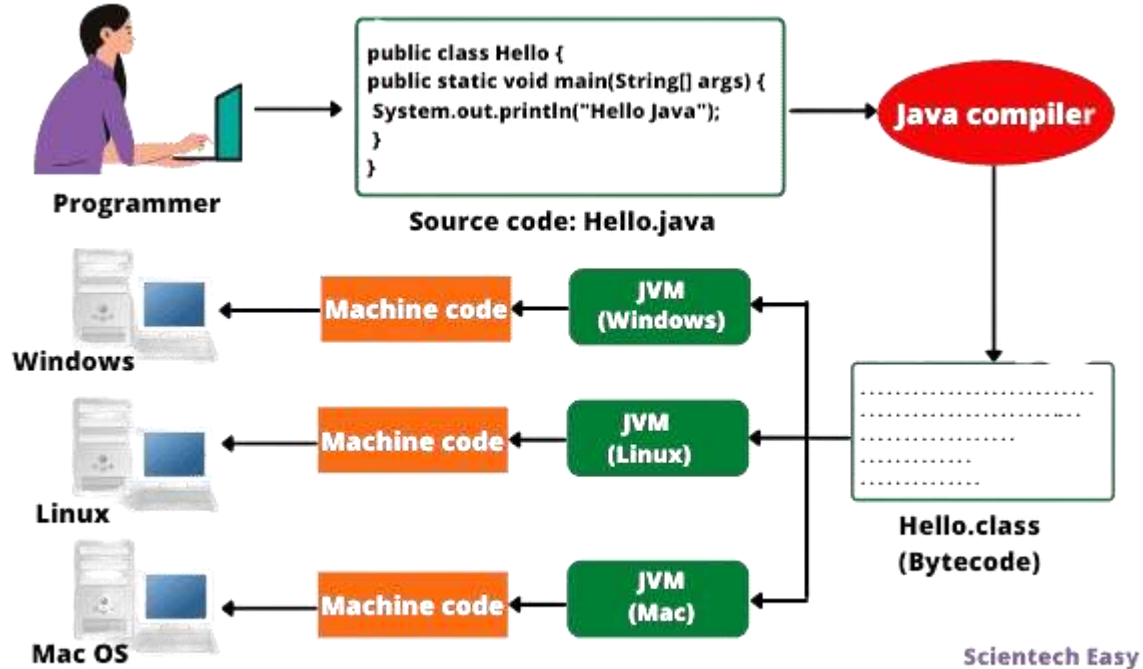


Fig: Java Programming Model

3. Secure and Robust



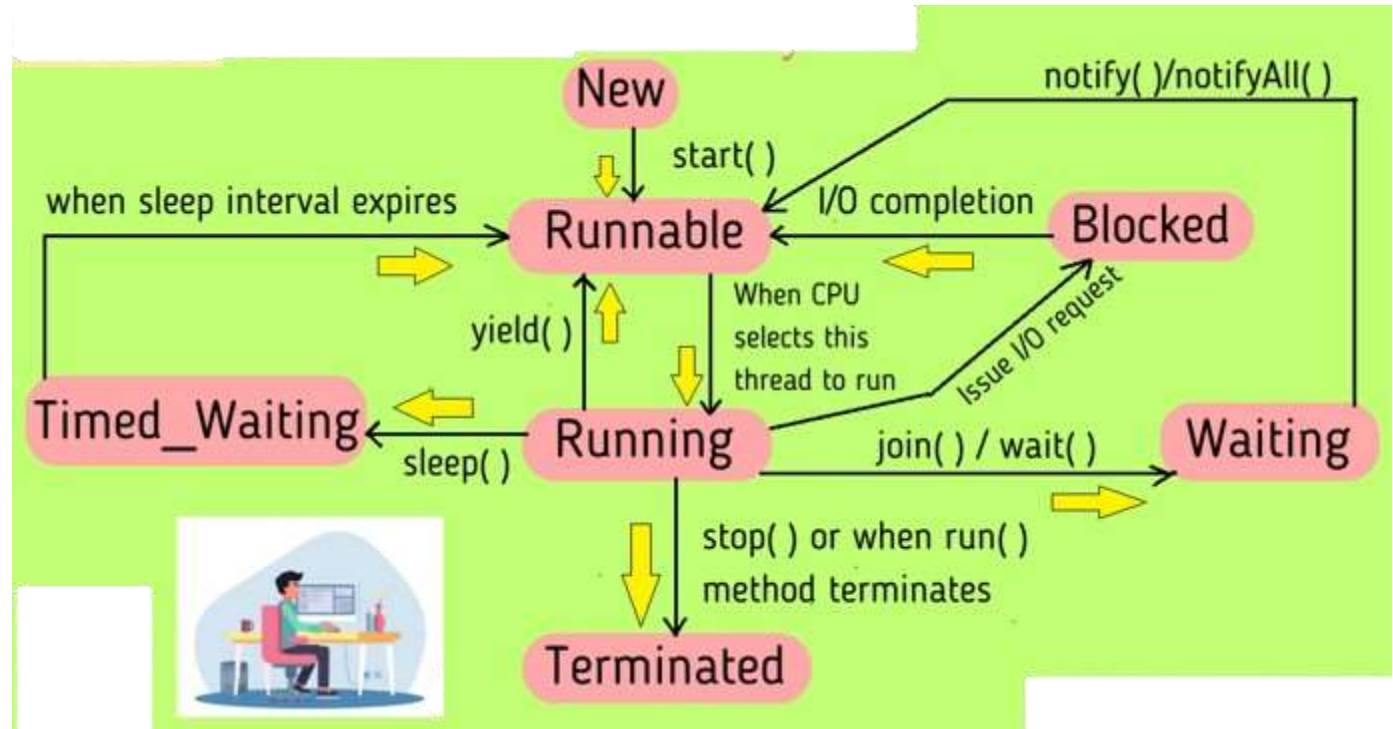
Secure:

Byte code which are generated can run on any machine which has the JVM and Secure because JVM itself checks the code at runtime.

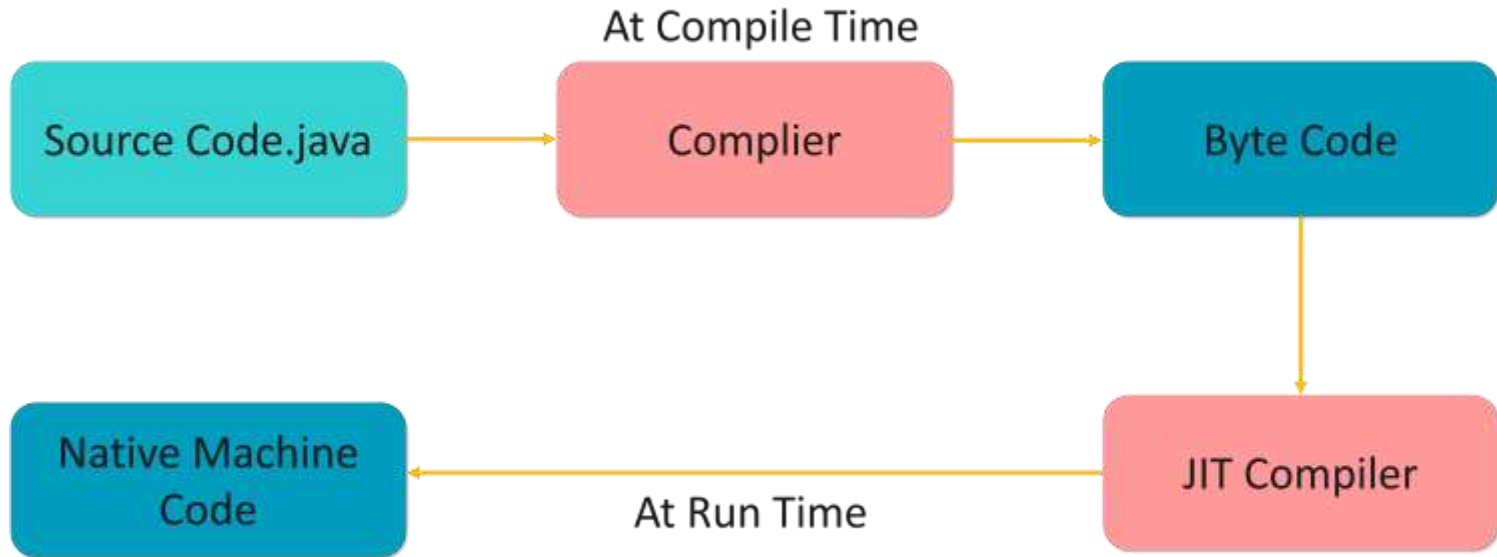
Robust:

1. Inbuilt function: Exception Handling
2. Robust Memory Management
3. Early error checking at compile time and Dynamic checking at run time

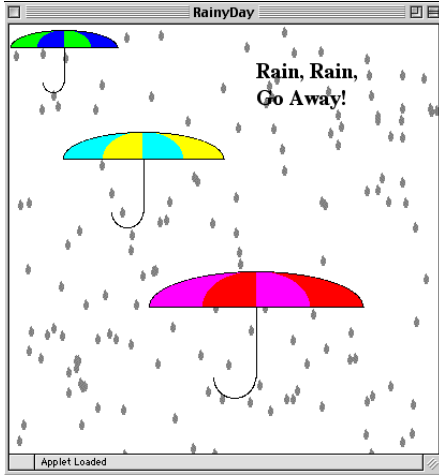
4. Multithreaded



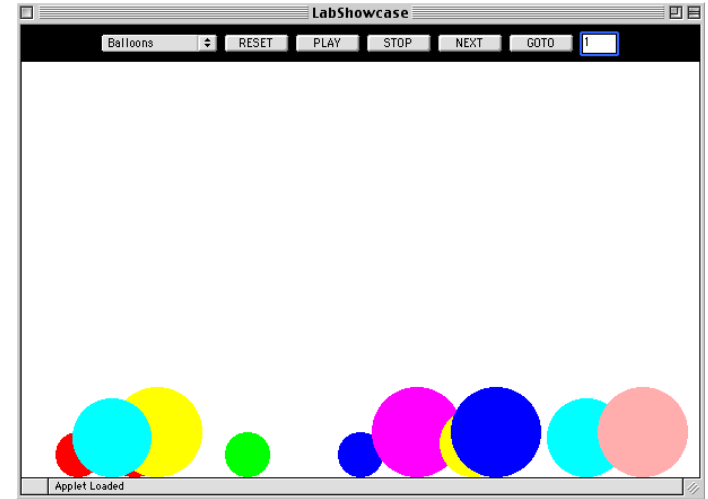
5. High Performance



6. Dynamic



Using applet program, we can also create animation dynamically on the Internet.



7. Simple



First: Difficult, clumsy, and confusing features of C and C++ had been omitted.

For example, the feature of pointers had been completely eliminated from Java.

Second: Require very little effort in learning.

Summary

①

②

③



E-Commerce Infographics



20%

MERCURY

Planet Mercury is the closest planet to the Sun

50%

MARS

Despite being red, it's a very cold place

30%

SATURN

Saturn is a gas giant and has several rings