



SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)

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COIMBATORE-641 035, TAMIL NADU



DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

COURSE CODE & NAME : 23CSB201 - Object Oriented Programming

II YEAR/ III SEMESTER

UNIT-I : INTRODUCTION TO OOP

Topic: Java Architecture



Java virtual Machine - Bytecodes



BYTE CODE

- A program written in a high-level language is called a *source program* or *source code*.
- To run the source code of a Java program, we need a Java compiler and a Java interpreter.
- The Java compiler compiles source files (.java) to generate bytecode (.class) files.
- Although the bytecode is similar to machine level codes, it is not directly executable.



Java virtual Machine - Bytecodes



- The bytecode is similar to machine instructions
- It is architecture neutral and can run on any platform that has a Java Virtual Machine (JVM).
- The virtual machine is a program that interprets Java bytecode.
- This is one of Java's primary advantages: Java bytecode can run on a variety of hardware platforms and operating systems.



Java virtual Machine – Bytecode Generation



