



## **SNS COLLEGE OF TECHNOLOGY**

**(AN AUTONOMOUS INSTITUTION)**

**COIMBATORE – 35**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**



### **Puzzles** **UNIT I**

#### **Puzzle 1: Java Evolution Word Scramble**

1. LNITGAERENOP
2. DEULMO
3. RECDRO
4. NTREHDA
5. ALSSC

Answer:

1. GENERATIONAL
2. MODULE
3. RECORD
4. THREAD
5. CLASS

#### **Puzzle 2: Fill in the Blanks - Java Architecture**

Complete the following sentences related to Java architecture:

1. Java's architecture is often referred to as \_\_\_ and \_\_\_, meaning it can run anywhere and is portable.
2. The Java compiler converts Java source code into \_\_\_ code, which is a platform-independent code executed by the \_\_\_.
3. The \_\_\_ is the heart of the Java platform and is responsible for interpreting the bytecode.
4. Java's memory model separates memory into different areas, including the \_\_\_, stack, and method area.
5. The Java \_\_\_ contains libraries that provide common functionality such as I/O, networking, and utilities.

## Answer

1. write once, run anywhere.
2. Bytecode
3. JVM
4. Heap
5. standard library

### Puzzle 3: Multiple Choice - Data Types and Variables

1. Which of the following is a primitive data type in Java?
  - a) String
  - b) Object
  - c) int
  - d) Array
2. What is the default value of a boolean variable in Java?
  - a) true
  - b) false
  - c) 0
  - d) null
3. Which of the following data types would you use to store a number like 5.75?
  - a) int
  - b) double
  - c) char
  - d) boolean
4. Java uses the keyword \_\_\_\_ to declare constants.
  - a) final
  - b) static
  - c) const
  - d) fixed
5. Which of the following is NOT a valid variable name in Java?
  - a) \_myVar
  - b) 2ndVariable
  - c) myVariable2
  - d) \$variable

Answer:

1. c) int
2. b) false
3. b) double
4. a) final
5. b) 2ndVariable

### **Puzzle 5: True or False - Comments and Environment Setup**

1. A multi-line comment in Java starts with `/*` and ends with `*/`.
2. A single-line comment in Java can be created using `//`.
3. Command line arguments can be passed to the main method as an array of `int`.
4. The Java Development Kit (JDK) is required to run Java programs but not to compile them.
5. Java Virtual Machine (JVM) is platform-independent.

Answer:

True

True

False (They are passed as an array of `String`.)

False (JDK is required for both compiling and running Java programs.)

True