**SESSION DECEMBER 2022**

**PROGRAM BCA**

**SEMESTER IV**

**COURSE CODE &amp; NAME DCA2202 &amp; JAVA PROGRAMMING**

**CREDITS 4**

**SET-I**

**1. Explain the java architecture with the help of suitable diagram. Provide technical specification for all the components used in the architecture.**

# Ans: Java Architecture

Java Architecture is a collection of components, i.e., JVM, JRE, and JDK. It integrates the process of interpretation and compilation. It defines all the processes involved in creating a Java program. Java Architecture explains each and every step of how a program is compiled and executed.

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**2. How java handles strings? Explain. Discuss any 3 string manipulation classes in details.**

**Ans:** Java handles all input and output in the form of streams. A stream is a sequence of bytes travelling from a source to a destination over a communication path. If a program writes into a stream, it is the stream’s source. Similarly, if it is reading from a stream, it is the stream’s destination.

Streams are powerful because they abstract the details of input/output (I/O) operations. The two basic streams used are the

**3. Explain the use of super keyword in context to the java programming. Write a java program to show at least two uses of super keyword.**

**Ans:** The**super** keyword in java is a reference variable that is used to refer to parent class objects. An understanding of [Inheritance](https://www.geeksforgeeks.org/inheritance-in-java/)and [Polymorphism](https://www.geeksforgeeks.org/polymorphism-in-java/)is needed in order to understand the super keyword. The keyword “super” came into the picture with the concept of Inheritance. It is

**SET-II**

**4. Why multithreading is important in java? Explain the life cycle of a thread with the help of suitable diagram. Provide technical specification for all the thread life cycle components.**

**Ans: Multithreading** is highly useful and makes multi-tasking easier for Java applications, But the more the number of threads, the more complicated the algorithm becomes. When we try to start multiple threads in one program, interference issues arise because the threads try and access a common, shared

**5. Explain the following in detail:**

**Hibernate and JPA.**

**Ans:** Hibernate is an open source object relational mapping ([ORM](https://theserverside.techtarget.com/definition/object-relational-mapping)) tool that provides a framework to map object-oriented domain models to relational databases for web

**6. Explain the life cycle of the Servlet Life Cycle? Discuss the overview of Spring framework of java.**

**Ans:** The entire life cycle of a Servlet is managed by the **Servlet container** which uses the **javax.servlet.Servlet** interface to understand the Servlet object and manage it. So, before creating a