Information Technology Department

Name of Programme: - IF

Name of Course: - Java Programming(SEM-IV Summer-2026)

Course Outcome.– Develop Java program for implementing code reusability concepts.

Course Co-ordinator : Mr Raj Sinha

Assignment –V

2 Marks Questions.

1. Define a socket in Java.
2. What is meant by client-server architecture?
3. What is the use of the InetAddress class?
4. Define TCP/IP.
5. What is a URL in Java?
6. Define ODBC.
7. What is the role of DriverManager class?
8. What is a ResultSet?

4 Marks Questions.

1. Explain the concept of sockets in Java with diagram.
2. Describe the InetAddress class with its factory and instance methods.
3. Explain TCP/IP client-server communication using sockets.
4. Differentiate between TCP sockets and Datagram sockets.
5. Explain JDBC architecture (Two-tier and Three-tier) with diagram.
6. Describe the types of JDBC drivers.

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Assignment – IV

2 Marks Questions.

1. Define **Component** and **Container** in AWT.
2. What is a **Layout Manager**? Name any two layout managers used in Java.
3. Write any **two differences between AWT and Swing**.
4. What is an **Event** in Java?
5. List any **two Event Listener interfaces** used in Java event handling

4 Marks Questions.

1. Explain the **difference between Component, Container, Frame and Panel** in AWT with suitable example.

2. Explain **FlowLayout and BorderLayout** with diagram and example.

3. Explain **features of Swing** and differentiate between **AWT and Swing components**.

4. Explain the **Delegation Event Model** with the help of **event source and event listener**.

5. Describe any **four event classes** used in Java (ActionEvent, ItemEvent, KeyEvent, MouseEvent).

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Assignment –III

2 Marks Questions.

1. Define **error** and **exception** in Java.
2. What is the purpose of the **try–catch block** in Java?
3. List any **two built-in exceptions** in Java.
4. What is **multithreading** in Java?

4 Marks Questions.

1. Differentiate between **errors and exceptions** with suitable examples (Write Code wherever needed).
2. Explain the **try, catch, throws and finally statements** with syntax.
3. Explain **two methods of creating a thread in Java** with example.
4. Describe the **life cycle of a thread** and explain different thread states.

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Assignment –II

2 Marks Questions.

1. Define Array of Objects in Java.
2. Explain Constructors with examples.
3. Explain Default Constructors with examples.
4. Explain Parameterized Constructors with examples.
5. Explain static and this keyword with code.
6. Explain about the different pillars of OOP.
7. What is an Abstract class and Abstract Method?
8. What is an Interface in Java?
9. Write about the different types of access modifiers available in java.

4 Marks Questions.

1. Write a java program to declare a class 'tender' having data members 'ten_id' and 'ten_name' accept and display data for two objects with Default and parameterized constructors.
2. Write java program to declare a class 'bank' having data members 'bank_id' and 'bank_name' accept and display data for three objects using default and parameterized constructor.

3. Explain Method Overloading and Method Overriding with proper code example and state the difference between the two.

4. Explain different types of Inheritance available in Java with proper code.

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Course Outcome:– Develop Java programs using classes and objects.

Assignment –I

2 Marks Questions.

1. Why Java Programming is called Object Oriented Language.
2. Explain the difference between JDK vs JRE vs JVM.
3. Explain Data Types of Java.
4. Write Applications of Java.
5. Define concepts Token,Variable,Type casting,constant,operator,identifier.

4 Marks Questions.

1. Write any eight features of java and explain it.
2. Explain JDK tools with its proper syntax.
3. Illustrate JVM architecture with a proper diagram.
4. Explain all the types of Operator (eg. Arithmetic, Conditional, etc) with its meaning and write code examples for each.
5. Explain String class in Java and its methods with proper code examples.
5. Explain Break and continue statements with examples.
6. Write a Java code to explain different types of Inheritance in Java with proper code.

Last Date Of submission: 04/01/2026

Name of course coordinator: - Mr. Raj Sinha