

# DEPARTMENT OF MCA

**Enterprise Java Lab (22MCA207)**

# Assignment - 5

10-03-2025

1. Write a program to copy the contents of one file to another using FileInputStream and FileOutputStream.
2. Write a program to read and write character data using FileReader and FileWriter.
3. Write a program to read a text file line by line using BufferedReader and write to another file using BufferedWriter.
4. Write a program to store and retrieve student details (name, age, grade) using DataOutputStream and DataInputStream.
5. Write a program to serialize and deserialize a Book object using ObjectOutputStream and ObjectInputStream.
6. Write a program to read a file and handle FileNotFoundException, IOException, and a custom exception for empty files.
7. Write a program to copy a text file using BufferedReader & BufferedWriter and a binary file using FileInputStream & FileOutputStream.
8. Write a program to read a large CSV file line by line using BufferedReader and process the data efficiently.
9. Write a program to implement a simple text editor where users can create, edit, and read files using Scanner, FileWriter, and BufferedReader.
10. Write a program to implement a user authentication system using object serialization (ObjectOutputStream, ObjectInputStream).
11. Write a program to demonstrate ArithmeticException by performing division by zero and handling it using try-catch.
12. Write a program to handle ArrayIndexOutOfBoundsException by accessing an invalid index in an array.
13. Write a program to demonstrate multiple catch blocks by handling NullPointerException and NumberFormatException.
14. Write a program to demonstrate nested try-catch blocks, handling exceptions at different levels.
15. Write a program to illustrate throw and throws by creating a method that throws IllegalArgumentException if input is negative.
16. Write a program to use the finally block to ensure resource closure after a file read operation.
17. Write a program to demonstrate custom exception handling by creating a user-defined exception class InvalidAgeException for voting eligibility.
18. Write a program to demonstrate exception propagation using multiple method calls.
19. Write a program to simulate an online banking system that throws InsufficientFundsException if withdrawal amount exceeds balance.
20. Write a program to handle Java’s built-in exceptions like IOException while reading a file.