AIM: Write a program java to demonstrate the use of multiple try blocks and multiple catch blocks for exception handling.

CODE:

// File: MultipleTryCatch.java

public class MultipleTryCatch {

public static void main(String[] args) {

try {

int[] arr = {10, 20, 30};

System.out.println("Element at index 2: " + arr[2]);

try {

int result = 10 / 0; // ArithmeticException

System.out.println("Result: " + result);

} catch (ArithmeticException e) {

System.out.println("Inner Catch - ArithmeticException: " + e.getMessage());

}

} catch (ArrayIndexOutOfBoundsException e) {

System.out.println("Outer Catch - ArrayIndexOutOfBoundsException: " +

e.getMessage());

} catch (Exception e) {

System.out.println("Outer Catch - General Exception: " + e.getMessage());

}

System.out.println("Program continues after exception handling...");

}

}

OUTPUT:

