

Problem-1: Write a Java program that demonstrates the Exception Handling in Java

Code:

ExceptionCatch.java

```
package atif;

public class ExceptionCatch {

    public static void main(String[] args) {
        int[] numbers = {10, 20, 30, 40, 50, 60, 70, 80, 100};

        try {
            for (int i = 0; i <= numbers.length; i++) {
                System.out.println("Element at index " + i + ": " + numbers[i]);
            }
        } catch (ArrayIndexOutOfBoundsException e) {
            System.out.println("Caught Exception: " + e.getMessage());
        }
    }
}
```

Output:

Output

```
--- exec:3.1.0:exec (default-cli) @ Lab06_05_05_2025 ---
Element at index 0: 10
Element at index 1: 20
Element at index 2: 30
Element at index 3: 40
Element at index 4: 50
Element at index 5: 60
Element at index 6: 70
Element at index 7: 80
Element at index 8: 100
Caught Exception: Index 9 out of bounds for length 9
-----
BUILD SUCCESS
-----
Total time: 0.576 s
Finished at: 2025-05-18T20:59:40+06:00
```