

Java Program to demonstrate built-in exceptions using try, catch, throw, throws, and finally and Custom Exception. The program should clearly demonstrate how each exception occurs, how it is handled, and ensure that the program continues executing after handling both Built In and Custom exceptions.

1. Consider a Student Management System that demonstrates

i) Exception handling using built-in exceptions. The system should simulate various real-time errors such as:

- Invalid marks entry (ArithmaticException)
- Missing or null student records (NullPointerException)
- Unauthorized access to confidential student data (IllegalAccessException)
- Unexpected failures during result processing (RuntimeException)
- File reading or loading failures (IOException)

ii) Create a Custom Exception "InvalidMarksException" that is Thrown when a student's marks are entered as negative or greater than 100.

2. Develop a java program to accept command line arguments. If the arguments are numeric, convert them and perform all possible arithmetic operations and display results suitably and handle exceptions if any. If arguments are strings treat it as exception and handle it

Additional for practice:

Illustrate multiple catch with

suitable program. Also explain significance of using Generalized exception (Exception e) in the beginning or end on the order of catch clauses