



MANAV RACHNA UNIVERSITY, FARIDABAD
Department of Computer Science and Technology

Course: B.Tech. CSE

Semester: III

Subject: Object Oriented Programming using Java (CSH201B-T&P)

Lab: 09 Exception Handling in Java

Objective: To understand and implement exception handling using try - catch block in java.

Course Outcomes:

CSH201B.1: To impart **understanding** of basic programming concepts in Java language.

CSH201B.2: To enable the student to articulate given program scenario and **apply** different programming constructs.

CSH201B.3: To **analyze** the semantics of the given problem statement and illustrate the programming techniques to solve them.

Blooms Taxonomy Level: BT1, BT2, BT3

1. Create a class Student with attributes roll no, name, age and course. Initialize values through parameterized constructor. If age of the student is not in between 15 and 21 then generate user-defined exception "AgeNotWithinRangeException".
2. Write a program which accept two integers and an arithmetic operator from the command line and performs the operation. Fire the following user defined exceptions:
 - i. If the no of arguments are less than 3 then fire "illegalNumberOfArguments"
 - ii. If the operator is not an Arithmetic operator, throw "InvalidOperatorException"
 - iii. If result is -ve, then throw "NegativeResultException".
3. Define a class MyDate with members day, month, year. Define default and parameterized constructors. Accept values from the command line and create a date object. Throw user defined – "InvalidDayException" or InvalidMonthException" if the day and month are invalid. If the date is valid display message "valid date"