

**Hands-on No. : 8****Topic : Exception Handling****Date : 16-05-2024****Solve the following problems**

Question No.	Question Detail	Level
1	Write a Java program to get the citizen details like aadhar number, name, city, state and country. Define an custom exception called "NoMatchException", that is thrown when the country name is not equal to "India".	Easy
2	Create a calculator Application which does basic operations like addition, subtraction, multiplication and division with the following criteria a. Input must be in number format. No character or string inputs are not accepted. b. For division, denominator should not be zero. c. For multiplication, multiplier and multiplicand should not be 0 or 1. Create user defined exceptions wherever it is necessary and handle it appropriately.	Easy
3	Create a class <i>MyCalculator</i> which consists of a single method long power(int, int). This method takes two integers, n and p ,pass parameters and finds $n^p$ . If either n or p is negative, then the method must throw an exception which says " n or p should not negative". Also, if both n and p are zero, then the method must throw an exception which says "n and p should not be Zero ". <b>Sample Input</b> 3 5 2 4 0 0 -1 -2	Medium

***It is going to be hard but, hard does not mean impossible.***



	<p>-1 3</p> <p><b>Sample Output</b></p> <p>243</p> <p>16</p> <p>java.lang.Exception: n and p should not be zero.</p> <p>java.lang.Exception: n or p should not be negative.</p> <p>java.lang.Exception: n or p should not be negative.</p>	
<b>4</b>	<p>Create a class <i>MyCalculator</i> which consists of a single method <code>long power(int, int)</code>. This method takes two integers, <code>n</code> and <code>p</code>, pass parameters and finds <math>n^p</math>. If either <code>n</code> or <code>p</code> is negative, then the method must throw an exception which says "n or p should not negative". Also, if both <code>n</code> and <code>p</code> are zero, then the method must throw an exception which says "n and p should not be Zero".</p> <p><b>Sample Input</b></p> <p>3 5</p> <p>2 4</p> <p>0 0</p> <p>-1 -2</p> <p>-1 3</p> <p><b>Sample Output</b></p> <p>243</p> <p>16</p> <p>java.lang.Exception: n and p should not be zero.</p> <p>java.lang.Exception: n or p should not be negative.</p> <p>java.lang.Exception: n or p should not be negative.</p>	<b>Medium</b>

***It is going to be hard but, hard does not mean impossible.***