

1.	WAP to show the try - catch block to catch the different types of exception
Code	<pre>//WAP to show the try - catch block to catch the different types of exception //GITHUB LINK : https://github.com/PatelVraj10/java-practical- file-3 package PR_4; public class PR_4_1{ public static void main(String[] args) { int a=10,b=0; int c[] = {1,2,3}; try{ System.out.println(a/b); } catch(Exception e){ System.out.println("Arithmetic Exception Occured"); } try{ for(int i=0;i<4;i++) { System.out.println(c[i]); } } catch(Exception e) { System.out.println("Array Index Out Of Bound"); } try{ String s = null; System.out.println(s.charAt(0)); } catch(Exception e) { System.out.println("Null Pointer Exception"); } } }</pre>
OUTPUT	<pre>Array Index Out Of Bound Null Pointer Exception PS C:\Users\VRAJ PATEL></pre>

2.	WAP to generate user defined exception using “throw” and “throws” keyword.
Code	<pre>//WAP to generate user defined exception using “throw” and “throws” keyword.</pre>

	<pre>//GITHUB LINK: https://github.com/PatelVraj10/java-practical-file-3 import java.util.*; class MyException extends Exception { MyException(String s) { super(s); } } public class PR_4_2 { public static void main(String[] args) { Scanner s = new Scanner(System.in); int age = s.nextInt(); if(age<18) { try{ throw new MyException("Not Eligile"); } catch(MyException e) { System.out.println(e); } } else{ System.out.println("You Are Eligible"); } } }</pre>
OUTPUT	<pre>17 MyException: Not Eligile PS C:\Users\VRAJ PATEL></pre>

3.	Write a program that raises two exceptions. Specify two 'catch' clauses for the two exceptions. Each 'catch' block handles a different type of exception. For example the exception could be 'ArithmeticException' and 'ArrayIndexOutOfBoundsException'. Display a message in the 'finally' block.
Code	<pre>//Write a program that raises two exceptions. //Specify two 'catch' clauses for the two exceptions. //Each 'catch' block handles a different type of exception. //For example the exception could be 'ArithmeticException' and 'ArrayIndexOutOfBoundsException'. //Display a message in the 'finally' block.</pre>

	<pre>//GITHUB LINK: https://github.com/PatelVraj10/java-practical-file-3 import java.util.function.DoubleToIntFunction; public class PR_4_3{ public static void main(String[] args) { int a=10,b=0; int c[] = {1,2,3}; try{ System.out.println(a/b); } catch(Exception e){ System.out.println("Arithmetic Exception Occured"); } finally{ System.out.println("Arithmetic Exception Finally Block"); } try{ for(int i=0;i<4;i++) { System.out.println(c[i]); } } catch(Exception e) { System.out.println("Array Index Out Of Bound"); } finally{ System.out.println("Array Index Finally Block"); } } }</pre>
OUTPUT	<pre>Arithmetic Exception Occured Arithmetic Exception Finally Block 1 2 3 Array Index Out Of Bound Array Index Finally Block PS C:\Users\VRAJ PATEL></pre>

Github link :- <https://github.com/PatelVraj10/java-practical-file-3>