***EXCEPTION***

**SOURCE CODE:**

package Exception;

public class Exampleofexception {

public static void main(String[]args) {

try {

int a=25,b=0;

int c=a/b;

System.out.println(c);

}

catch(ArithmeticException e) {

System.out.println("Cannot divided by 0");

}

try {

int[] num= {1,2,3,4,5};

System.out.println(num[5]);

}

catch(ArrayIndexOutOfBoundsException e) {

System.out.println("The address cannot be found");

}

finally {

System.out.println("This program explains about Exception,try,catch and finally");

}

}

}

**OUTPUT:**

Cannot divided by 0

The address cannot be found

This program explains about Exception,try,catch and finally

***THROW EXCEPTION***

**SOURCE CODE:**

package Exception;

public class throwexample {

public static void divide(int num1, int num2) throws ArithmeticException {

if (num2 == 0) {

throw new ArithmeticException("Cannot divide by zero.");

}

int result = num1 / num2;

System.out.println("Result of division: " + result);

}

public static void main(String[] args) {

try {

divide(10, 2); // This will execute without throwing an exception.

divide(10, 0); // This will throw an ArithmeticException.

} catch (ArithmeticException e) {

System.err.println("ArithmeticException caught: " + e.getMessage());

}

}

}

**OUTPUT:**

Result of division: 5

ArithmeticException caught: Cannot divide by zero.