1] ExceptionHandlingSample

public class ExceptionHandlingSample

{

public static void main(String args[])

{

int a=5,b=10,c;

try

{

c=a/(b-10);

}

catch(ArithmeticException e)

{

System.out.println("ArithmeticException occured");

}

finally

{

System.out.println("Result:"+c);

}

}

}

O/P:

C:\Users\omipa\Desktop\Omkar>javac ExceptionHandlingSample.java

C:\Users\omipa\Desktop\Omkar>java ExceptionHandlingSample.java

ArithmeticException occured

Execution completed.

1] TryCatchExample

Public class TryCatch

{

public static void main(String[ ] args)

{

try

{

int[] numbers = {1, 2, 3};

System.out.println(numbers[10]);

}

catch(ArrayIndexOutOfBoundsException e)

{

System.out.println("ArrayIndexOutOfBoundsException ocured");

}

}

}

O/P:

C:\Users\omipa\Desktop\Omkar>javac TryCatch.java

C:\Users\omipa\Desktop\Omkar>java TryCatch.java

ArrayIndexOutOfBoundsException ocured

3] TryCatchFinallyExample

public class TryCatchFinally

{

public static void main(String[] args)

{

try

{

int a=10,b=0 ,c;

c= a / b;

System.out.println("Result: " + c);

}

catch (ArithmeticException i)

{

System.out.println("Error: Division by zero is not allowed.");

}

finally

{

System.out.println("Execution completed.");

}

}

}

O/P:

C:\Users\omipa\Desktop\Omkar>javac TryCatchFinally.java

C:\Users\omipa\Desktop\Omkar>java TryCatchFinally.java

Error: Division by zero is not allowed.

Execution completed.

4] TryFinallyExample

public class TryFinally

{

public static void main(String[] args)

{

try

{

int result = 10 / 2;

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

}

finally

{

System.out.println("Finally block executed.");

}

}

}

O/P:

C:\Users\omipa\Desktop\Omkar>javac TryFinally.java

C:\Users\omipa\Desktop\Omkar>java TryFinally.java

Result: 5

Finally block executed.

5] MultipleCatchExample

public class MultipleCatch

{

public static void main(String[] args)

{

try

{

int[] a= {10, 20, 30};

System.out.println("Disply array element" +a[5]);

int b=10,c=0 ,d;

d= b / c;

System.out.println("Result: " + d);

}

catch (ArrayIndexOutOfBoundsException e)

{

System.out.println("Error:ArrayIndexOutOfBoundsException");

}

catch (ArithmeticException i)

{

System.out.println("Error:ArithmeticException Division by zero is not allowed.");

}

finally

{

System.out.println("Execution completed.");

}

}

}

O/P: C:\Users\omipa\Desktop\Omkar>javac MultipleCatch.java

C:\Users\omipa\Desktop\Omkar>java MultipleCatch.java

Error:ArrayIndexOutOfBoundsException

Execution completed.