public class ThrowDemo

{

public static void main(String[] args)

{

int a=45,b=0,rs;

try

{

if(b==0)

throw(new ArithmeticException("Can't divide by zero."));

else

{

rs = a / b;

System.out.print("\n\tThe result is : " + rs);

}

}

catch(ArithmeticException Ex)

{

System.out.print("\n\tError : " + Ex.getMessage());

}

System.out.print("\n\tEnd of program.");

}

}

**Writing a program in Java to demonstrate the throws keyword**

**public class ThrowsDemo**

**{**

**void Division() throws ArithmeticException**

**{**

**int a=45,b=0,rs;**

**rs = a / b;**

**System.out.print("\n\tThe result is : " + rs);**

**}**

**public static void main(String[] args)**

**{**

**ThrowsDemo T = new ThrowsDemo();**

**try**

**{**

**T.Division();**

**}**

**catch(ArithmeticException Ex)**

**{**

**System.out.print("\n\tError : " + Ex.getMessage());**

**}**

**System.out.print("\n\tEnd of program.");**

**}**

**}**

**Writing a program in Java to demonstrate the finally keyword**

**public class FinallyBlockDemo**

**{**

**public static void main(String[] args)**

**{**

**int a=45,b=0,rs=0;**

**try**

**{**

**rs = a / b;**

**}**

**catch(ArithmeticException Ex)**

**{**

**System.out.print("\n\tError : " + Ex.getMessage());**

**}**

**finally**

**{**

**System.out.print("\n\tThe result is : " + rs);**

**}**

**}**

**}**

**Writing a program in Java to demonstrate custom exceptions**

**class MyException extends Exception**

**{**

**public MyException(String s)**

**{**

**super(s);**

**}**

**}**

**public class Main**

**{**

**public static void main(String args[])**

**{**

**try**

**{**

**throw new MyException("temp");**

**}**

**catch (MyException ex)**

**{**

**System.out.println("Caught");**

**System.out.println(ex.getMessage());**

**}**

**}**

**}**