using System;

// Exercise 13.3

// create System.Exception derived class

class ExceptionA : Exception

{

//emoty body

}

// create class exception A derived class

class ExceptionB : ExceptionA

{

// empty body

}

// // create class exceptionB derived class

class ExceptionC : ExceptionB

{

// empty body

}

public class ExceptionTest

{

public static void Main(string[] args)

{

try

{

//throw derived-class ExceptionC

throw new ExceptionC();

}

catch (ExceptionA exceptionTest)

{

Console.WriteLine("ExceptionC caught in ExceptionA" +

"catch block:\n" + exceptionTest + "\n");

}

// throw and catch an ExceptionB exception

try

{

//throw derived-class ExceptionB

throw new ExceptionB();

}

catch (ExceptionA exceptionTest)

{

Console.WriteLine("ExceptionC caught in ExceptionA" +

"catch block:\n" + exceptionTest + "\n");

}

}

}