I/O操作

例：程序io\_test1

// Copyright 2016.刘珅珅

// author：刘珅珅

// I/O测试：控制台输入

using *System*;

using *System*.*Collections*.*Generic*;

using *System*.*IO*;

using *System*.*Linq*;

using *System*.*Text*;

using *System*.*Threading*.*Tasks*;

namespace io\_test1

{

class IOTest

{

static void Main(string[] args)

{

*Console*.*WriteLine*("Enter some characters.");

string str = *Console*.*ReadLine*();

*Console*.*WriteLine*("You entered: " + str);

}

}

}

文件操作：

// Copyright 2016.刘珅珅

// author：刘珅珅

// IO操作：文件操作

using *System*;

using *System*.*Collections*.*Generic*;

using *System*.*Linq*;

using *System*.*IO*;

using *System*.*Text*;

using *System*.*Threading*.*Tasks*;

namespace io\_test2

{

class IOTest

{

static void Main(string[] args)

{

string str;

*FileStream* fout;

try

{

fout = new *FileStream*("test.txt", *FileMode*.*Append*);

}

catch (*IOException* ex)

{

*Console*.*WriteLine*("Error opening file: " + ex.*Message*);

return;

}

*StreamWriter* fstr\_out = new *StreamWriter*(fout);

try

{

*Console*.*WriteLine*("Enter text: ");

str = *Console*.*ReadLine*();

fstr\_out.*WriteLine*(str);

}

catch (*IOException* ex)

{

*Console*.*WriteLine*("I/O Error: " + ex.*Message*);

}

finally

{

fstr\_out.*Close*();

}

fout.*Close*();

}

}

}

文件的读写：

例：程序io\_test3

// Copyright 2016.刘珅珅

// author：刘珅珅

// I/O文件读写操作

using *System*;

using *System*.*Collections*.*Generic*;

using *System*.*Linq*;

using *System*.*IO*;

using *System*.*Text*;

using *System*.*Threading*.*Tasks*;

namespace io\_test3

{

class IOTest

{

static void Main(string[] args)

{

*FileStream* fin;

string s;

try

{

fin = new *FileStream*("test.txt", *FileMode*.*Open*, *FileAccess*.*Read*);

}

catch (*IOException* ex)

{

*Console*.*WriteLine*("Error opening file: " + ex.*Message*);

return;

}

*StreamReader* fstr\_in = new *StreamReader*(fin);

try

{

while (!fstr\_in.*EndOfStream*)

{

s = fstr\_in.*ReadLine*();

*Console*.*WriteLine*(s);

}

}

catch (*IOException* ex)

{

*Console*.*WriteLine*("I/O Error: " + ex.*Message*);

}

finally

{

fstr\_in.*Close*();

}

fin.*Close*();

}

}

}

二进制读写：

例：程序io\_test4

// Copyright 2016.刘珅珅

// author：刘珅珅

// I/O操作：二进制读写

using *System*;

using *System*.*Collections*.*Generic*;

using *System*.*Linq*;

using *System*.*IO*;

using *System*.*Text*;

using *System*.*Threading*.*Tasks*;

namespace io\_test4

{

class IOTest

{

static void Main(string[] args)

{

*BinaryWriter* dataOut;

*BinaryReader* dataIn;

int i = 0;

double d = 1023.56;

bool b = true;

string str = "This is a test";

// Write

try

{

dataOut = new *BinaryWriter*(new *FileStream*("testdata", *FileMode*.*Create*));

} catch (*IOException* ex)

{

*Console*.*WriteLine*("Error opening file: " + ex.*Message*);

return;

}

try

{

*Console*.*WriteLine*("Writing " + i);

dataOut.*Write*(i);

*Console*.*WriteLine*("Writing " + d);

dataOut.*Write*(d);

*Console*.*WriteLine*("Writing " + b);

dataOut.*Write*(b);

*Console*.*WriteLine*("Writing " + str);

dataOut.*Write*(str);

}

catch (*IOException* ex)

{

*Console*.*WriteLine*("I/O Error: " + ex.*Message*);

}

finally

{

dataOut.*Close*();

}

*Console*.*WriteLine*();

// Read

try

{

dataIn = new *BinaryReader*(new *FileStream*("testdata", *FileMode*.*Open*, *FileAccess*.*Read*));

}

catch (*IOException* ex)

{

*Console*.*WriteLine*("Error opening file: " + ex.*Message*);

return;

}

try

{

*Console*.*WriteLine*("Reading " + dataIn.*ReadInt32*());

*Console*.*WriteLine*("Reading " + dataIn.*ReadDouble*());

*Console*.*WriteLine*("Reading " + dataIn.*ReadBoolean*());

*Console*.*WriteLine*("Reading " + dataIn.*ReadString*());

}

catch (*IOException* ex)

{

*Console*.*WriteLine*("I/O Error: " + ex.*Message*);

}

finally

{

dataIn.*Close*();

}

}

}

}