java io. File 郊传说: FileInput Stream /FileOutputStream /FileReader/FileWriter

缓冲流:

BufferedInputStream/Buffered(Jut put Stream/ Buffered Reculer/Buffered Writer

文件流是到刘畅标准,这种流是新加畅操作



"『遥观"的教是引从从文件的位意, 电台有取

File美国新提、删除、到效学和缺、回转操成件管



package Test;

import java.io.File;

```
public class IAndO {
  public static void main(String[] args) {
    File f1 = new File("txt/test0.txt");
    File f2 = new File("txt/");
    System.out.println(f1.getName());
    System.out.println(f2.getName());
    System.out.println(f1.getPath());
```

```
System.out.println(f1.getAbsolutePath());
    System.out.println(f1.getAbsoluteFile());
    System.out.println(f1.getParent());
    System.out.println(f1.getParentFile());
    if(f1.exists()){
       System.out.println("文件"+f1.getName()+"存在!");
    }else {
       System.out.println("访问的文件不存在!");
    if(f1.canWrite()){
       System.out.println("文件"+f1.getName()+"可写!");
    }else {
       System.out.println("访问的文件不可写!");
    if(f1.canRead()){
       System.out.println("文件"+f1.getName()+"可读!");
    }else {
       System.out.println("访问的文件不可读!");
    if(f1.canExecute()){
       System.out.println("文件"+f1.getName()+"可执行!");
       System.out.println("访问的文件不可执行!");
    if(f1.exists()){
       System.out.println("文件"+f1.getName()+"存在!");
       System.out.println("访问的文件不存在!");
    System.out.println(f1.getName()+"上一次修改时间是"+f1.lastModified());
    f1.renameTo(new File("txt/test1.txt"));
    File f3 = new File("./txt/txt");
    f2.mkdir(); // mkdirs
    String[] fileList1 = f2.list(); // 以字符串数组的形式返回目录下文件/目录名
    File[] fileList2 = f2.listFiles(); // 以File对象返回
  }
}
package Test;
import java.io.File;
public class BianLi {
  public static void main(String[] args) {
    File directory = new File(".");
    bianLi(directory);
```

```
public static void bianLi(File file){
   if(file.isFile()){
      System.out.println(file.getAbsoluteFile());
   }else{
      System.out.println(file.getAbsoluteFile()+":");
      File[] files = file.listFiles();
      for(File f:files){
            bianLi(f);
      }
   }
}
```

## 输入输出化

波:

. 松妮教服鞋的: \$P说(图1) - 转流(UBD) 冰站: 输入池. 输出池 站名: 弘.滟. 处理池

(抽象基类)	字节流	<i>字符藻</i> 【
输入流	InputStream	Reader •
輸出流	OutputStream	Writer

#### 此竹鹅妻是所有输入输出的妻

分类	字节输入流	字节输出流	字符输入流	字符输出流
抽象基类	InputStream	OutputStream	Reader	Writer
访问文件	FileInputStream	FileOutputStream	FileReader	FileWriter
访问数组	ByteArrayInputStream	ByteArrayOutputStream	CharArrayReader	CharArrayWriter
访问管道	PipedInputStream	PipedOutputStream	PipedReader	PipedWriter
访问字符串			StringReader	StringWriter
缓冲流	BufferedInputStream	BufferedOuputStream	BufferedReader	Buff redWriter
转换流			InputStreamReader	OutputStreamWrit
对象流	ObjectInputStream	ObjectOutputStream		
	FilterInputStream	FilterOutputStream	FilterReader	FilterWriter
打印流		PrintStream		PrintWriter
推回输入流	PushbackInputStream		PushbackReader	
特殊流	DataInputStream	DataOutputStream		

#### T节晚的车南入军输出:

package Test;

```
import java.io.FileInputStream;
import java.io.FileOutputStream;
import java.nio.charset.StandardCharsets;
public class IAndOStream {
   public static void main(String[] args) {
     testFileInputStream();
     testFileOutputStream();
```

```
public static void testFileInputStream(){
       FileInputStream in = new FileInputStream("txt/test1.txt");
       int len;
       byte[] b = new byte[10];
       while((len = in.read(b))!=-1){ // 答:次後取ap kn = -1
          // 将byte转为string
          System.out.println(new String(b, 0, len));
       }
       in.close();
     }catch (Exception e){
       e.printStackTrace();
  public static void testFileOutputStream(){
       FileOutputStream out = new FileOutputStream("txt/test2.txt");
       String str = new String("Hello");
       out.write(str.getBytes(StandardCharsets.UTF_8));
       out.flush();
       out.close();
     }catch (Exception e){
       e.printStackTrace();
    }
  }
}
守育院的输入钻出:
            字篇的写下和流的区别在于A在中的中的表体由的terz为了char.
package Test;
import java.io.FileReader;
import java.io.FileWriter;
import java.nio.charset.StandardCharsets;
public class IAndOStream2 {
  public static void main(String[] args) {
     testFileInputStream();
     testFileOutputStream();
  public static void testFileInputStream(){
       FileReader in = new FileReader("txt/test1.txt");
       int len;
       char[] b = new char[10];
       while((len = in.read(b))!=-1){
```

```
// 将byte转为string
          System.out.println(new String(b, 0, len));
        in.close();
     }catch (Exception e){
        e.printStackTrace();
  public static void testFileOutputStream(){
        FileWriter out = new FileWriter("txt/test3.txt");
        String str = new String("Hello");
        out.write(str);
        out.flush();
        out.close();
     }catch (Exception e){
       e.printStackTrace();
     }
  }
}.
```

### 袋冲流:

上述的守備和等的都是CPU直接多种感色,遊戲和慢,不幾乎像以是在內有的建一个多少区,CPUS内面交互,且爱到人

Buffered Input Stream

Buffered Output Stream

Buffered Reader

BufferedWriter

# 转换流:

年支持流提供了在卡节流和卡片流之的的转换 InputStream Reader 和OutputStreamWriter

```
131:
      FileInput Stream & = new File Input Stream );
      In put Stream Reader in = new input Stream Roader (fs, "2/43623");
             In close,
            fs. chse,
林色输入流和输出流
      In put Stream Rouder is = new Input Stream Reader (System in );
      Buffered Reader br = new Buffered Reader Cis);
      String Str = " ";
      while ( (str = br. realline())!=nyll) }
             system.out. pmt/nostry;
       br. cluse;
      is dose,
      3
 数据光.
 import java.io.*;
 public class DataOut {
    public static void main(String[] args) {
        testDataOutputStream();
      } catch (IOException e) {
        e.printStackTrace();
      }
      try{
        testDataInputStream();
      } catch (IOException e) {
        e.printStackTrace();
      }
```

```
}
  public static void testDataOutputStream() throws IOException {
     DataOutputStream out = new DataOutputStream(new FileOutputStream("./txt/data.txt"));
     out.writeBoolean(true);
     out.flush();
     out.close();
  public static void testDataInputStream() throws IOException {
     DataInputStream in = new DataInputStream(new FileInputStream("./txt/data.txt"));
     System.out.println(in.readBoolean());
     in.close();
  }
}
对乱流:
     近处到方列化和反系列化
    Serialize Arbicallut putsturam & Nava st&521012
    Deservative A Object hard Stream 13 13-14-152 110+153
    不能活动化的动化和transient (Static 多手数,不是了时刻)
  成部化和序列化的建整格型: 整, 题, 概略
import java.io.*;
public class ObjectStream {
  public static void main(String[] args) {
     try {
       testSerialize();
     } catch (IOException e) {
       e.printStackTrace();
     try {
       testDeSerialize();
     } catch (IOException e) {
       e.printStackTrace();
     } catch (ClassNotFoundException e) {
       e.printStackTrace();
    }
  public static void testSerialize() throws IOException {
     ObjectOutputStream out = new ObjectOutputStream(new FileOutputStream("./txt/serialize.txt"));
     Person person = new Person();
     person.name="lda";
     person.age = 21;
     out.writeObject(person);
     out.flush();
```

```
out.close();
   public static void testDeSerialize() throws IOException, ClassNotFoundException {
     ObjectInputStream in = new ObjectInputStream(new FileInputStream("./txt/serialize.txt"));
     Person person = (Person)in.readObject();
     System.out.println(person.name);
     System.out.println(person.age);
   }
}
随机存取流:
     Rondom/Access File
支持文件的任意地方读、写文件。
  构造瓷
     public Random Access Rile (file file, String made);
     public Random Access file (String name, String mode);
     r 37/Aflush
     rvd
     rws
```