

Assignment 10

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格式相关

- 文档提供 markdown、pdf 和 word 格式
- 文件夹 README 下存放 运行结果截图
- 其他文件夹存放 代码

1. Mod9 Ex1

```
PS E:\Assignment10\mod09\exercise1> javac .\TestLineNumbering.java
PS E:\Assignment10\mod09\exercise1> java TestLineNumbering data.txt
Hello World
Second Line
Fourth Line
PS E:\Assignment10\mod09\exercise1>
```

data.txt - 记事本

文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)

- 1: Hello World
- 2: Second Line
- 3:
- 4: Fourth Line

1. Mod15 Ex1

- WriteObject

```
WriteFamilies x
↑ "C:\Program Files\Java\jdk-17.0.2\bin\java.exe"
↓ Calculating number of siblings for Pat Willcutt
Pat Willcutt has 4 sibilings.
↕ Calculating number of siblings for Bryan Basham
Bryan Basham has 2 sibilings.
```

- families.ser

families.ser - 记事本

文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)

```
sr Family { L childrent Ljava/util/List;L fathert LPerson;L motherq ~ xpsr
java.util.ArrayList;L I sizep ~w ~sr Person;A? L familyt LFamil;L
firstNamet Ljava/lang/String;L lastNameq ~xpq ~t Joaniet Willcuttsq ~g ~t Jeanieq
sq ~q ~t Patq ~sq ~q ~t Bobq ~sq ~q ~t Wendyq ~xsq ~pt Wardq
sq ~pt Inezt Xxssq sq ~w ~sq ~q ~t Duanet Bashamxsq ~pt Ulyssq ~
sq ~pt Elizabetht Brownsq ~sq ~w ~sq ~q ~t Brendaq sq ~q ~t
Deareenq ~sq ~q ~t Bryanq xq ~q ~
```

- ReadObject

```
ReadFamilies x
↑ "C:\Program Files\Java\jdk-17.0.2\bin\java.exe"
○ ↓ Calculating number of siblings for Pat Willcutt
Pat Willcutt has 4 sibilings.
↺ Calculating number of siblings for Bryan Basham
↻ Bryan Basham has 2 sibilings.
```

1. Mod15 Ex3

- 本练习中，我建立了一个简易数据库。
- 数据库中每条记录的格式为：name + quantity (String + integer)
- 数据库实现了以下功能：
 1. 显示所有记录
 2. 更新一条记录
 3. 新增一条记录
 4. 删除一条记录
- 实现了一定的防错误输入的功能，不会直接退出数据库。
- 因为篇幅原因，我无法演示所有功能，所以这里只展示一部分功能。

1. 显示所有记录

```
----- menu begin -----
1.display all records [1]
2.update a record [2 Index Name Quantity]
3.add a new record [3 Name Quantity]
4.remove a record [4 Index]
5.quit [5]
----- menu end -----
○ 1

----- records begin -----
1: Isaac - 1
2: Isaac - 2
3: Bob - 3
----- records end -----
```

2. 更新一条记录 (更新记录2为 Alice - 2)

```
○ 2 2 Alice 2
```

- ```
----- records begin -----
1: Isaac - 1
2: Alice - 2
3: Bob - 3
----- records end -----
```

### 3. 新增一条记录 ( Carol 4 )

- ```
3 Carol 4
```

```
----- records begin -----
1: Isaac - 1
2: Alice - 2
3: Bob - 3
4: Carol - 4
----- records end -----
```

4. 删除一条记录

- ```
4 3
```

```
----- records begin -----
1: Isaac - 1
2: Alice - 2
3: Carol - 4
----- records end -----
```

## 2. the Gourmet Coffee

- TestFileCatalogLoader输出

- ```
Testing class FileCatalogLoader...
All tests passed
```

- GourmetCoffee输出

- 详见 theGourmetCoffee 目录下的, `output.txt`, `PlainText.txt`, `HTML.html`, `XML.xml`

3. StudentSystem

- 控制台输出:

- ```
Mike: 80
Jose: 60
Tom: 90
Rose: 70
75.0
Jose: 60
Rose: 70
Mike: 80
Tom: 90
```

- 文件输出

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