Homework 4 File Copy

1.实验目的

Copy a file from source folder to destination folder

实验代码

```java
package copyfile;

import java.io.File;
import java.io.FileInputStream;
import java.io.FileOutputStream;
import java.io.IOException;

public class copyfile {

    public  void copyFile(String old_path,String new_path)throws IOException {
        File oldfile = new File(old_path);
        File newfile = new File(new_path);
        //如果复制的不是一个文件
        if(!oldfile.isFile()) {
            newfile.mkdirs();
            File[] filelist = oldfile.listFiles();
            for(File files :filelist) {
                String filepath = new_path + File.separator + files.getName();
                File file = new File(filepath);
                if(files.isDirectory()) {
                    file.mkdir();
                    copyFile(files.toString(),file.toString());
                }else {
                    FileInputStream in = new FileInputStream(files);
                    FileOutputStream out = new FileOutputStream(file);
                    OutByte(in,out);
                    System.out.println(files.toString()+" 完成复制");
                }
            }
        }else {
            FileInputStream in = new FileInputStream(old_path);
            FileOutputStream out = new FileOutputStream(new_path +
File.separator + oldfile.getName());
            OutByte(in,out);
            System.out.println(oldfile.toString()+" 完成复制");
            }
        }

    public static void OutByte(FileInputStream in,FileOutputStream out)throws
IOException{
        byte[] bytes = new byte [1024];
        int temp = 0;
        while((temp = in.read(bytes,0,bytes.length))>-1) {
            out.write(bytes,0,temp);
        }
        in.close();
```

```
        out.flush();
        out.close();
    }
}
```

```
package copyfile;

import java.io.File;

public class copyfilemain {

    public static void main(String [] arg) {
        try {
            copyfile copyaction = new copyfile();

copyaction.copyFile("D:"+File.separator+"test","D:"+File.separator+"temp");
        }catch(Exception e){
            e.getStackTrace();
            System.out.println(e.getMessage());
        }
    }
}
```
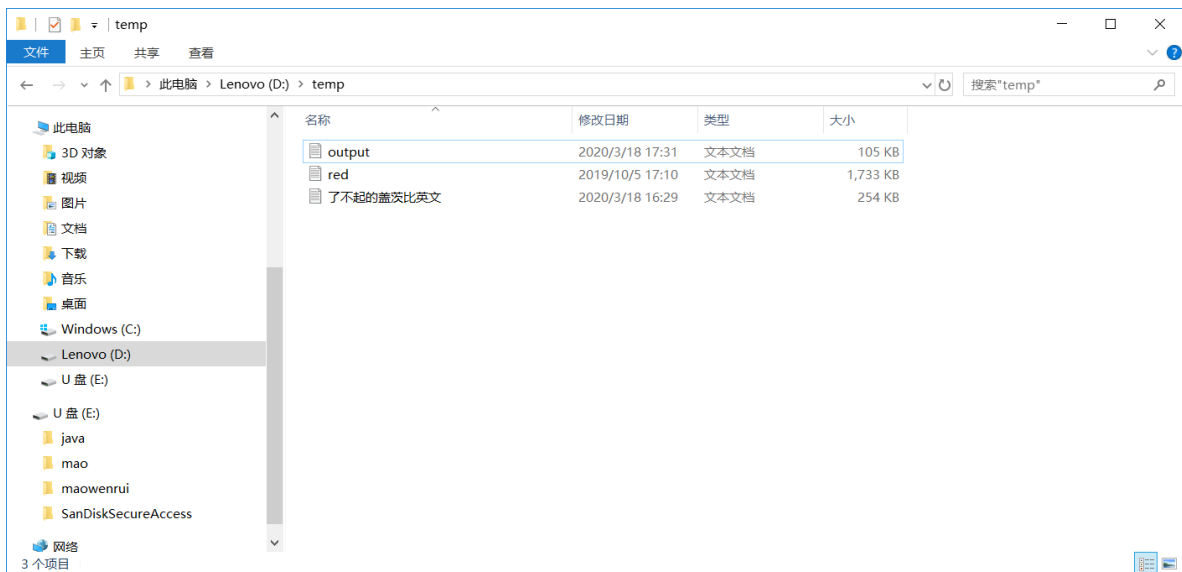
3.作业实现

```
 8        try {
 9            copyfile copyaction = new copyfile();
10            copyaction.copyFile("D:"+File.separator+"temp","D:"+File.se
11        }catch(Exception e){
12            e.getStackTrace();
13            System.out.println(e.getMessage());
14        }
15    }
16 }
17
```

<terminated> copyfilemain [Java Application] C:\Program Files\Java\jre1.8.0_102\bin\javaw.exe (2020年3月18日 下午
D:\temp\output.txt 完成复制
D:\temp\red.txt 完成复制
D:\temp\了不起的盖茨比英文.txt 完成复制