

Task 3: New IO (NIO)

Use NIO Channels and Buffers to read content from a file and write to another file.

```
package test;

import java.io.IOException;

import java.nio.ByteBuffer;

import java.nio.channels.FileChannel;

import java.nio.file.*;

public class NIOFileCopyExample {

    public static void main(String[] args) {

        Path sp=Paths.get("source.txt");

        Path dp=Paths.get("destination.txt");

        try {

            FileChannel sc=FileChannel.open(sp, StandardOpenOption.READ);

            FileChannel dc=FileChannel

                .open(dp, StandardOpenOption.CREATE, StandardOpenOption.WRITE);

            ByteBuffer buffer = ByteBuffer.allocate(1024);

            while (sc.read(buffer) > 0) {

                buffer.flip();

                dc.write(buffer);

                buffer.clear();

            }

            sc.close();

            dc.close();

            System.out.println("File copied successfully.");

        } catch (IOException e) {

            e.printStackTrace();

        }

    }

}
```

