```
DAY 25:
```

## **ASSIGNMENT 3:**

## Task 3: New IO (NIO)

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

## ANSWER:

```
import java.io.IOException;
import java.nio.ByteBuffer;
import java.nio.channels.FileChannel;
import java.nio.file.Files;
import java.nio.file.Path;
import java.nio.file.Paths;
import java.nio.file.StandardOpenOption;
public class NIO {
  public static void main(String[] args) {
    Path inputPath = Paths.get("input.txt");
    Path outputPath = Paths.get("output.txt");
    try {
      Files.writeString(inputPath, "Hello, this is a test content.\nThis is the second line.\nAnd this is
the third line.");
    } catch (IOException e) {
      e.printStackTrace();
    }
    try (FileChannel inputFileChannel = FileChannel.open(inputPath, StandardOpenOption.READ);
       FileChannel outputFileChannel = FileChannel.open(outputPath, StandardOpenOption.WRITE,
StandardOpenOption.CREATE)) {
      ByteBuffer buffer = ByteBuffer.allocate(1024);
      while (inputFileChannel.read(buffer) > 0) {
         buffer.flip(); // Prepare the buffer for reading
         outputFileChannel.write(buffer);
         buffer.clear(); // Prepare the buffer for writing
```

```
System.out.println("Content has been copied from " + inputPath + " to " + outputPath);
} catch (IOException e) {
    e.printStackTrace();
}
}
```