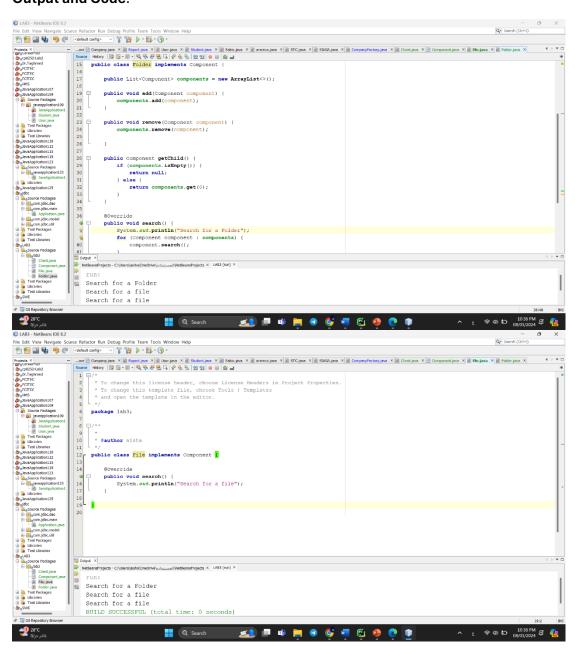
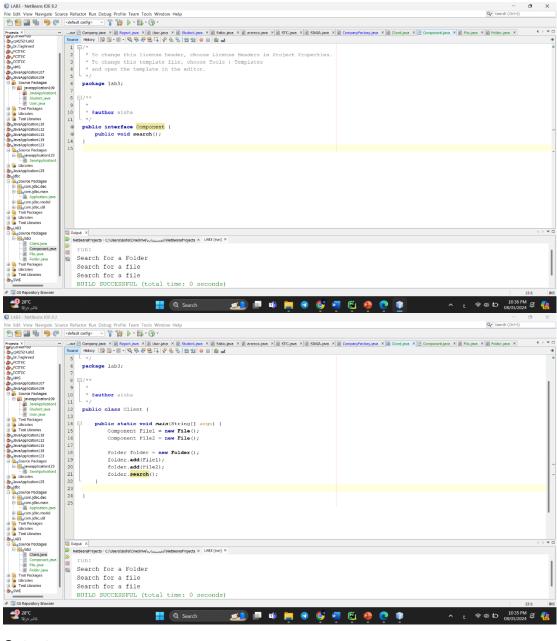
Lab Activity 1:

- The appropriate pattern for this scenario is **Composite**.

Output and Code:





Output

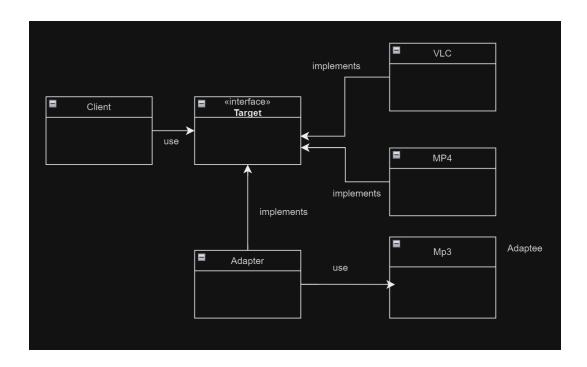
```
| Source | S
```

Lab Activity 2:

- The appropriate pattern for this scenario is the Adapter pattern.

The Adapter pattern acts as a bridge between objects with incompatible interfaces. By creating an adapter class it allows the old application to play new file formats, like VLC and MP4, without modifying its source code.

UML:



Lab Activity 3:

The pattern is **Decorator pattern**

UML

