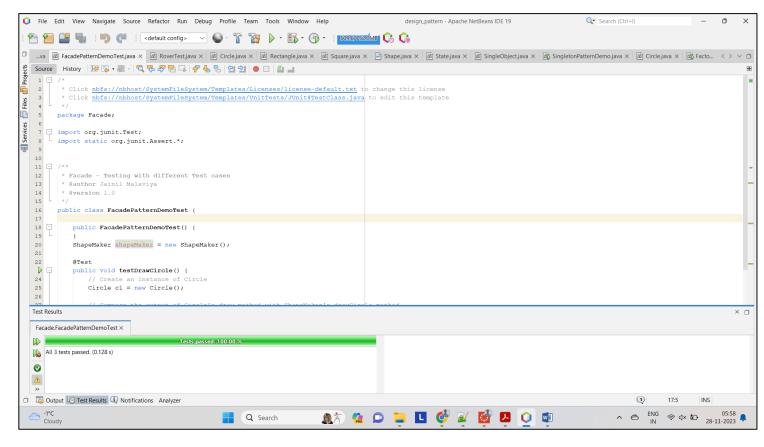
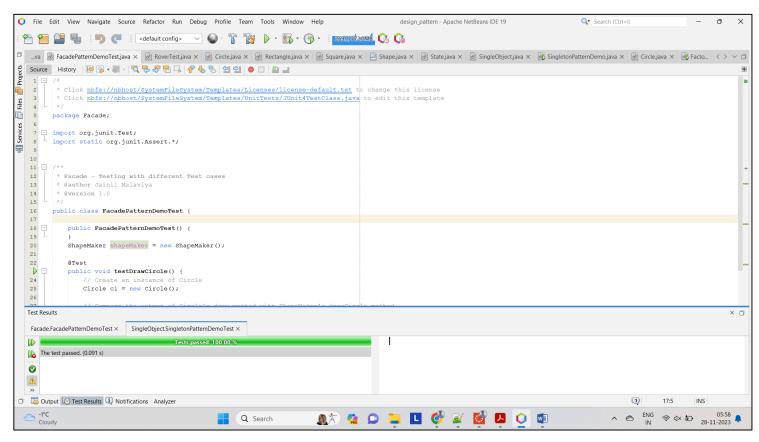
Assignment 4 - Design Patterns

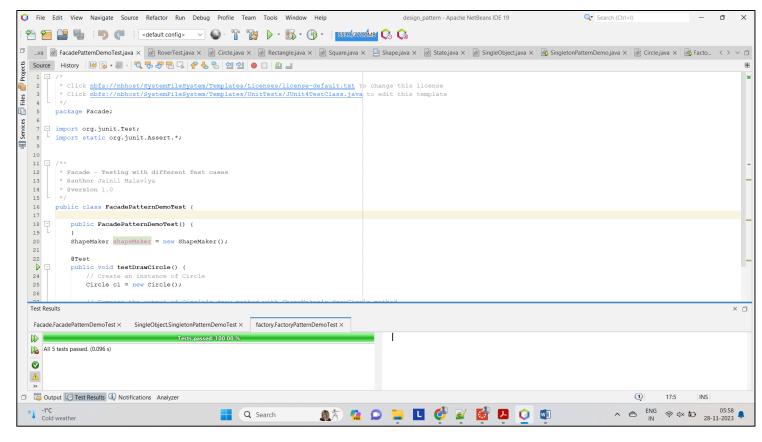
- Screenshots
 - Test Cases
 - 1. Façade



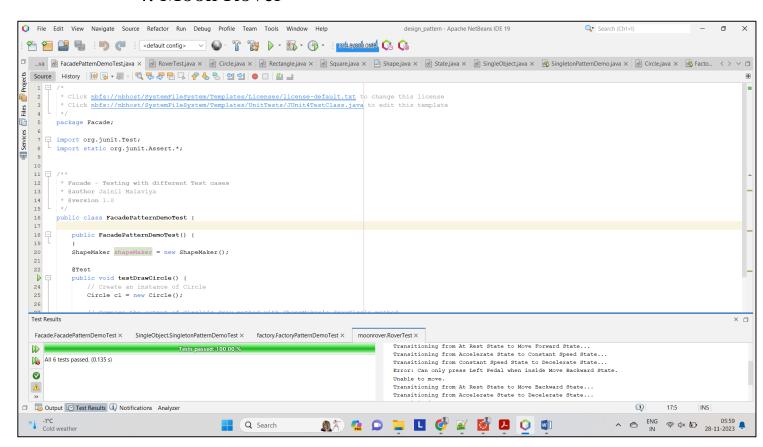
2. Single object



3. Factory

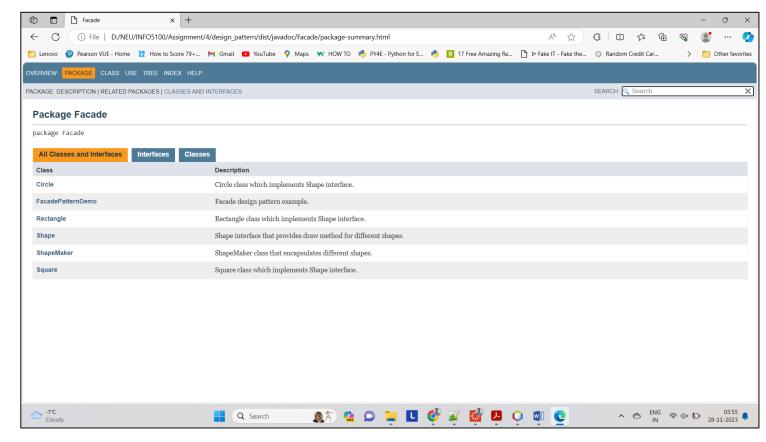


4. Moon Rover

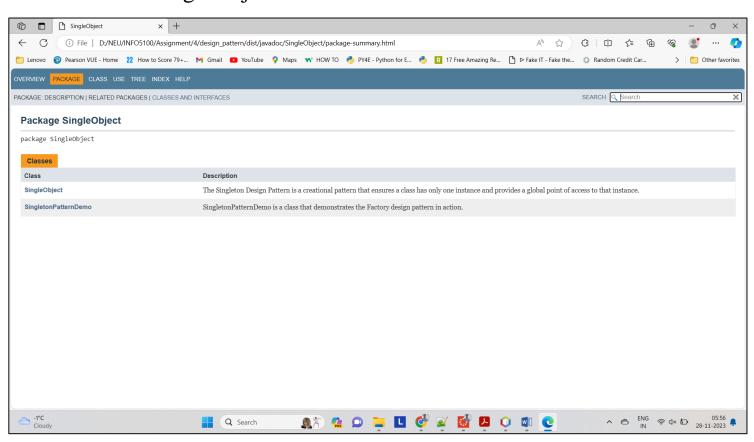


Java Doc

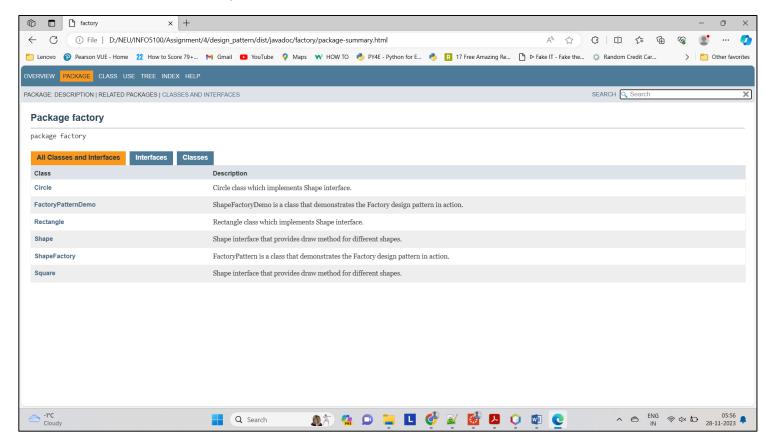
1. Façade



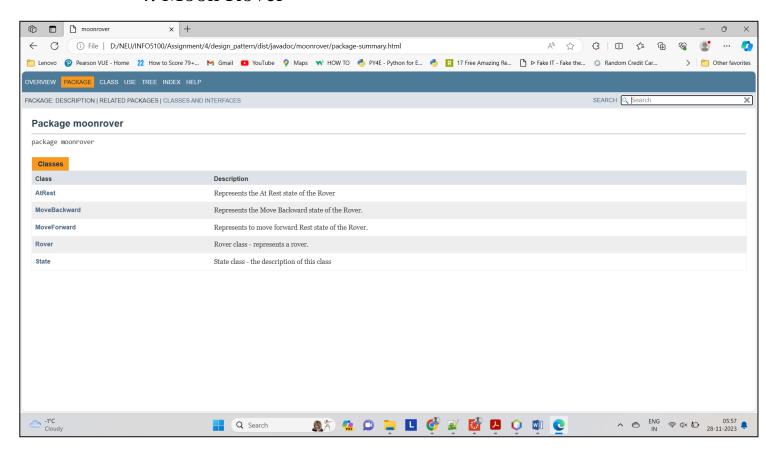
2. Single object



3. Factory



4. Moon Rover

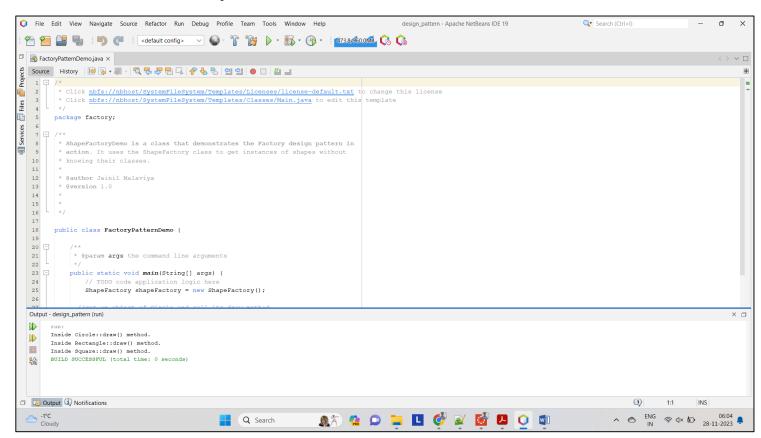


Sample Run

1. Façade

```
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                                                                                                                                                                                                                                                                                                                                                    design_pattern - Apache NetBeans IDE 19
    The state of the s
☐ S FacadePatternDemo.java ×
* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
Eiles
                                * Facade design pattern example.
* @author Jainil Malaviya
                        * @version 1.0
                      public class FacadePatternDemo {
                                                ablic static void main(String[] args) {
ShapeMaker shapeMaker = new ShapeMaker();
                                                  shapeMaker.drawCircle();
                                                     shapeMaker.drawRectangle();
                                                   shapeMaker.drawSquare();
        Output - design_pattern (run)
                            BUILD SUCCESSFUL (total time: 0 seconds)
         <u>0</u>3
  Top events
Event brief
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```

2. Factory



3. Single Object

```
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      Parameter
      Parameter
□ SingletonPatternDemo.java ×
package SingleObject;
                    * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license  
* Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Main.java to edit this template
                      * SingletonPatternDemo is a class that demonstrates the Factory design pattern in action.
                  public class SingletonPatternDemo {
                               * @param args the command line arguments
                           public static void main(String[] args) {
                                    SingleObject object = SingleObject.getInstance();
                                object.showMessage();
     Output - design_pattern (run)
                  Hello World!
     D
                  BUILD SUCCESSFUL (total time: 0 seconds)
     -
     <u>8</u>2
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                                                                                                                       Q Search
```

4. Moon Rover

