A blue circle with white text

Description automatically generated

**COMSATS UNIVERSITY ISLAMABAD, ABBOTTABAD**

***Design Pattern***

Lab assignment # 02

***Submitted by:***

Laiba Binta Tahir FA21-BSE-019

***Submitted to:***

Mam Faiza Hameed

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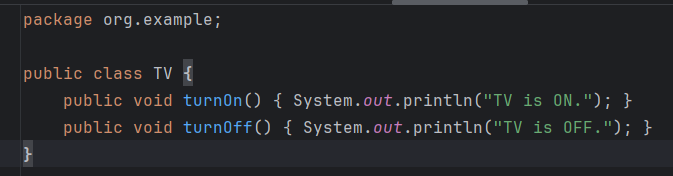
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# **Facade Pattern**

Example: home automation with multiple systems.

## Code



A screen shot of a computer code

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A screen shot of a computer code

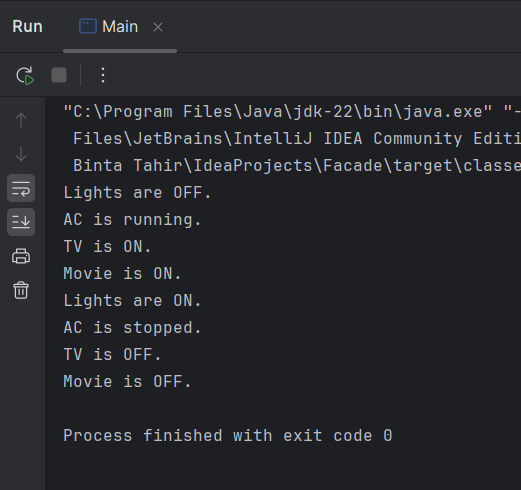
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A screen shot of a computer program

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A screen shot of a computer program

Description automatically generated



## Class diagram

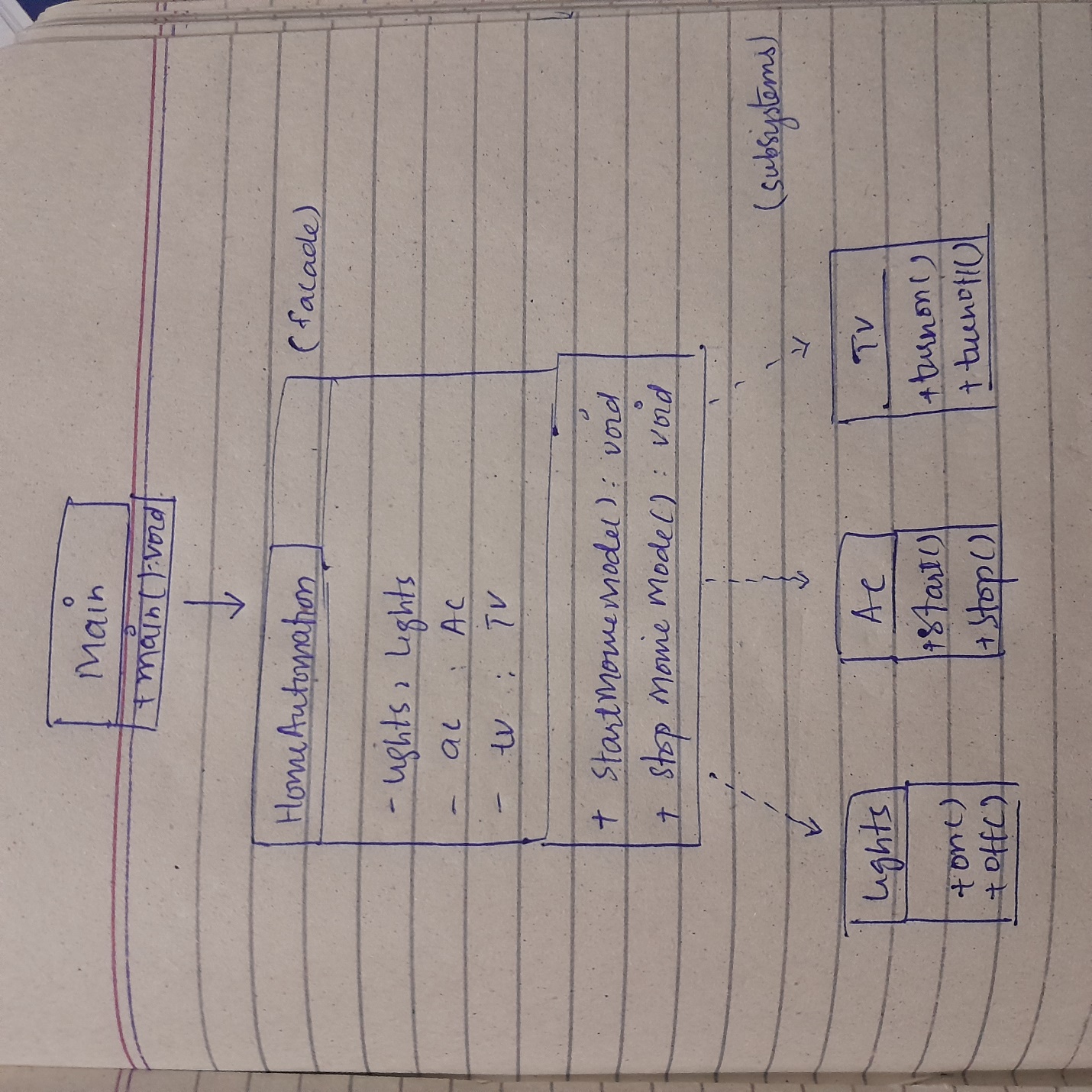
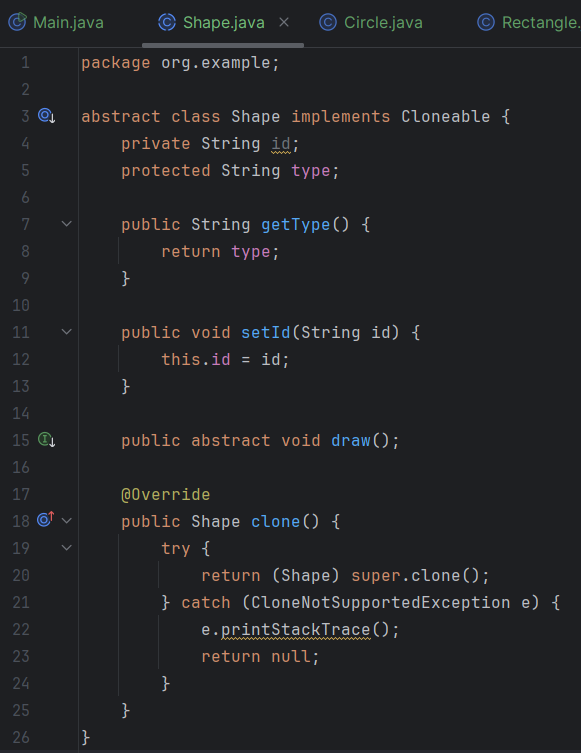


Figure Facade pattern

# **Prototype pattern**

Example: A Shape class where cloning is required.

## Code



A computer screen shot of a program

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A screen shot of a computer code

Description automatically generated

A screen shot of a computer program

Description automatically generated

A screenshot of a computer program

Description automatically generated

## Class Diagram

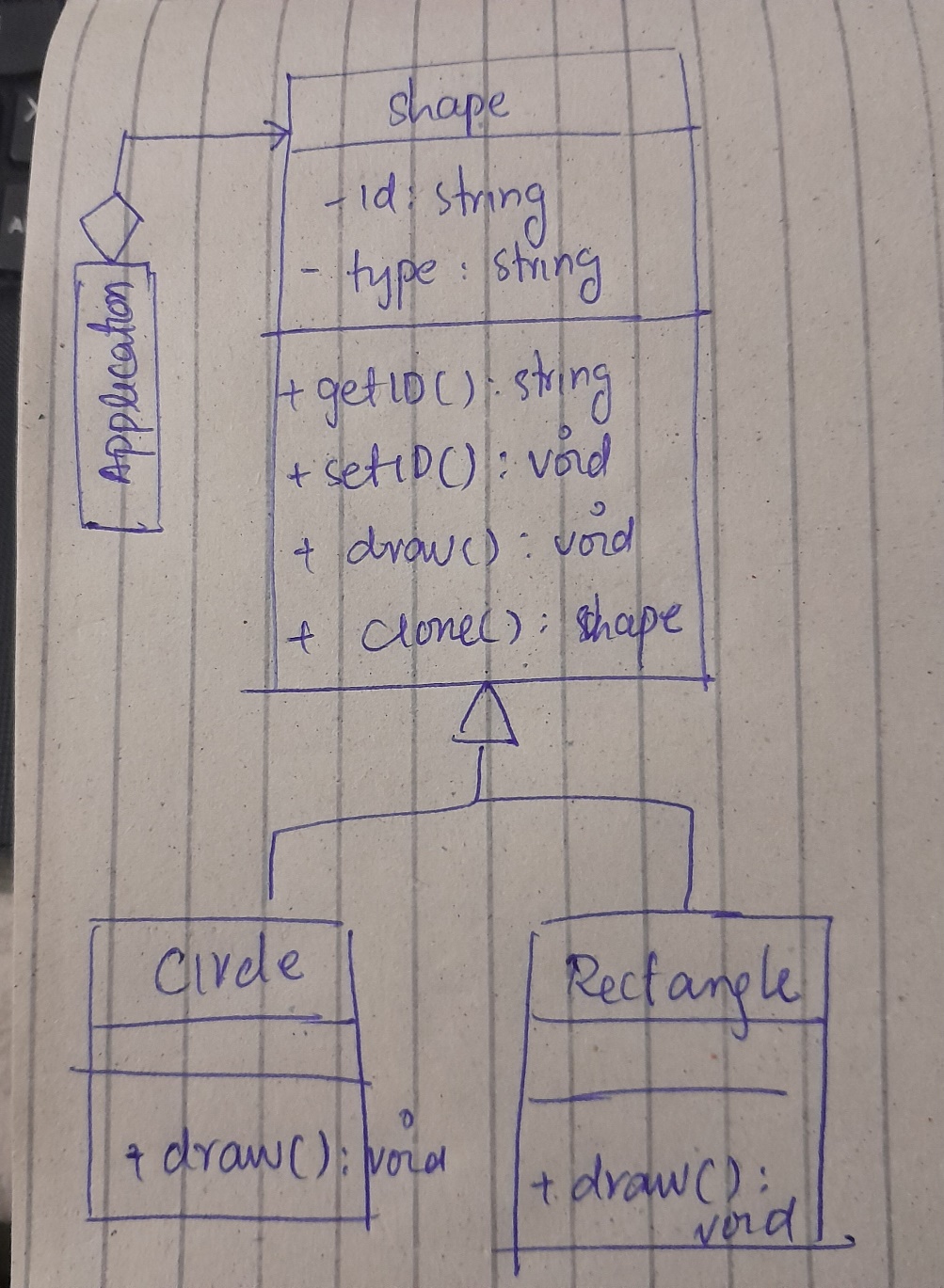
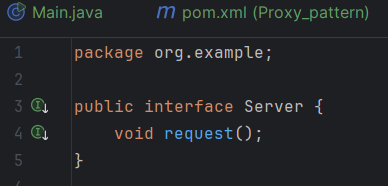


Figure Prototype pattern

# **Proxy pattern**

Example: A Proxy for accessing a Remote Server.

## Code



A computer screen shot of a program code

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A computer screen shot of a program code

Description automatically generated

A screen shot of a computer program

Description automatically generated

A screenshot of a computer program

Description automatically generated

## Class Diagram

A paper with writing on it

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Figure proxy pattern

# **Observer pattern**

Example: A News Publisher (subject) notifies Subscribers (observers) when there's a new article.

## Code

A screen shot of a computer program

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A screen shot of a computer program

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A screen shot of a computer program

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A screen shot of a computer

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## Class Diagram

