

CSE 4851

Design Pattern

Assignment 2: Composite Pattern

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Section 1

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Shape Class:

```
public class shape{
    private String name;
    private String color;
    private List<shape> contains;

    public shape(String name,String color){
        this.name = name;
        this.color = color;
        contains = new ArrayList<shape>();
    }

    public void add(shape s){
        contains.add(s);
    }

    public void remove(shape s){
        contains.remove(s);
    }
}
```

Here we can see, I have created a simple shape class. Where shape class has two attributes **name & color**. Each complex object of this class will also have a list of simple shapes using those that complex shape is built. So, we can build any combination of shapes using those simple shapes.

Main Class:

From the main class, I have created some of the simple and complex shape objects and print their details. Here I'm giving my implemented hierarchy of different shapes.

