In this assignment, i used strategy and decorator pattern. Shape objects can attached additional properties and they can be changed dynamically at runtime and we can wrap up the object with any number of times. Because of this, i used decorator pattern for adding additional properties like color, light, contrast.

Then i implemented strategy pattern for calculating masses of the objects. The algorithm of calculating changes when the material of the shape object changes. I encapsulated the algorithms of calculating masses of the objects so they can be changed at the runtime.