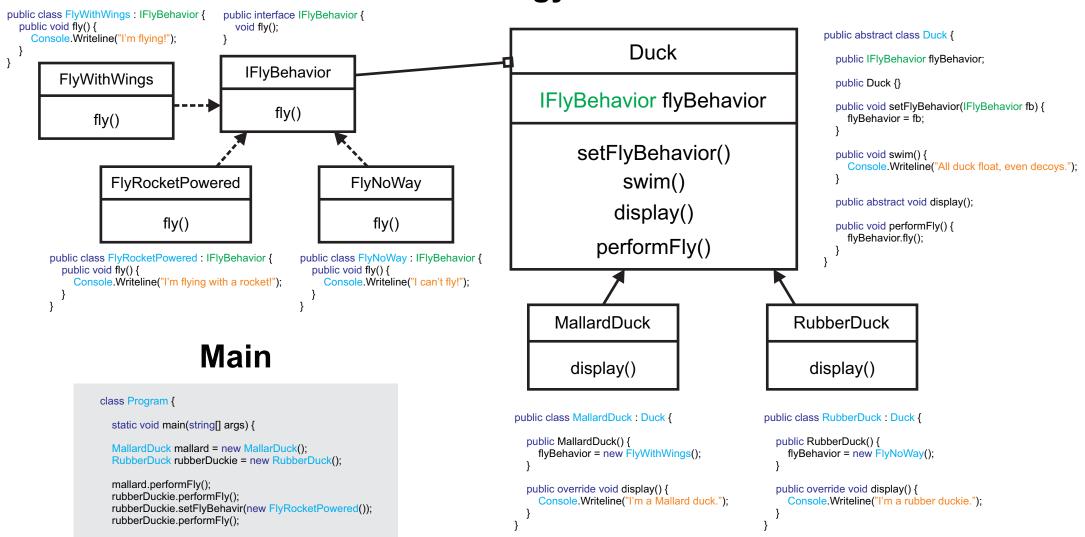
Strategy Pattern



Output

I'm flying! I can't fly! I'm flying with a rocket!

```
public class WeatherData: ISubject
                                                      public interface ISubject
  private List<|Observer> observers:
  private float temperature;
  private float humidity;
                                                        void registerObserver(IObserver o);
                                                                                                           public interface IObserver
  private float pressure;
                                                        void removeObserver(IObserver o);
                                                        void notifyObservers();
                                                                                                             void update(float temperature, float humidity, float pressure);
  public WeatherData()
                                                                                                observers
    observers = new List<IObserver>();
                                                                  Subject
                                                                                                               Observer
                                                                                                                                        DisplayElement
  public void registerObserver(IObserver o)
                                                          registerObserver()
                                                                                                               update()
                                                                                                                                              display()
    observers.Add(o);
                                                          removeObserver()
                                                           notifyObservers()
  public void removeObserver(IObserver o)
     int i = observers.IndexOf(o);
    if (i >= 0)
       observers.RemoveAt(i);
                                                                                       subject
                                                                                                             CurrentConditionsDisplay
                                                              WeatherData
  public void notifyObservers()
                                                          registerObserver()
                                                                                                                        update()
                                                          removeObserver()
     for (int i = 0: i < observers.Count(): i++)
                                                                                                                        display()
                                                           notifyObservers()
       IObserver observer = (IObserver)observers[i];
       observer.update(temperature, humidity, pressure);
                                                           getTemperature()
                                                                                            class CurrentConditionsDisplay: IObserver, IDisplayElement
                                                              getHumidity()
                                                                                              private float temperature:
  public void measurementsChanged()
                                                             getPressure()
                                                                                              private float humidity:
                                                                                              private float pressure;
     notifyObservers():
                                                                                              private ISubject weatherData;
                                                                                              public CurrentConditionsDisplay(ISubject weatherData)
  public void setMeasurements(float temperature, float humidity, float pressure)
     this.temperature = temperature:
                                                                                                this.weatherData = weatherData;
                                                                                                weatherData.registerObserver(this);
    this.humidity = humidity;
    this.pressure = pressure;
    measurementsChanged();
                                                                                              public void update(float temperature, float humidity, float pressure)
                                                                                                this.temperature = temperature;
  public float getTemperature()
                                                                                                this.humidity = humidity:
                                                                                                this.pressure = pressure;
     return temperature;
                                                                                                display();
  public float getHumidity()
                                                                                              public void display()
     return humidity;
                                                                                                 Console.WriteLine("Current conditions: " + temperature
                                                                                                   + " F degrees, Humidity : " + humidity
                                                                                                   + " % and Pressure: " + pressure + " P.");
  public float getPressure()
     return pressure;
```

Observer Pattern

public interface IDisplayElement

void display();

Main

```
class Program
{
    static void Main(string[] args)
    {
        WeatherData weatherData = new WeatherData();
        CurrentConditionsDisplay currentDisplay
        = new CurrentConditionsDisplay(weatherData);
        weatherData.setMeasurements(80, 65, 30.4f);
        weatherData.setMeasurements(82, 70, 29.2f);
        weatherData.setMeasurements(78, 90, 27.7f);
    }
}
```

Output

Current conditions: 80 F degrees, Humidity: 65 % and Pressure: 30,4 P. Current conditions: 82 F degrees,

Humidity: 70 % and Pressure: 29.2 P.

Current conditions: 78 F degrees,

Humidity: 90 % and Pressure: 27,7 P.