Balloon

Attributes:
private WeatherTower weatherTower;

Methods:
Balloon(String name, Coordinates coordinates);
public void updateConditions();
public void registerTower(WeatherTower weatherTower);

Aircraft

Attributes:
protected long id;
protected String name;
protected Coordinates coordinates;
private static long idCounter;

Methods:
protected Aircraft(String name, Coordinates coordinates);
private long nextId();

JetPlane

Attributes:
private WeatherTower weatherTower;

Methods:
JetPlane(String name, Coordinates coordinates);
public void updateConditions();
public void registerTower(WeatherTower weatherTower);

Flyable

Attributes:
NONE

Methods:
public void updateConditions();
public void registerTower(WeatherTower weatherTower);

Helicopter

Attributes:
private WeatherTower weatherTower;

Methods:
Helicopter(String name, Coordinates coordinates);
public void updateConditions();
public void registerTower(WeatherTower weatherTower);

Coordinates

Attributes:
int longitude;
int latitude;
int height;

Methods:
Coordinates(int longitude, int latitude, int height);
public int getLongitude();
public int getLatitude();
public int getHeight();

Tower

Attributes:
private ArrayList<Flyable> observers;

Methods:
public void register(Flyable flyable);
public void unregister(Flyable flyable);
protected void conditionsChanged();

WeatherTower

Attributes:
NONE

Methods:
public String getWeather(Coordinates coordinates);
void changeWeather();

Key

◁ Inherits from

◀ Implements

◇ Can outlive its parent class

◆ Depends on the lifecycle of the parent class

▢ Class associated with itself

*https://www.ibm.com/developerworks/rational/library/content/RationalEdge/
sep04/bell/bell-pdf.pdf*

Flyable

Attributes:
NONE

Methods:
public void updateConditions();
public void registerTower(WeatherTower weatherTower);

WeatherProvider

Attributes:
private static WeatherProvider weatherProvider;
private static String[] weather;

Methods:
private WeatherProvider();
public static WeatherProvider getProvider();
public String getCurrentWeather(Coordinates coordinates);

AircraftFactory

Attributes:
NONE

Methods:
public static Flyable newAircraft(String type, String name,
        int longitude, int latitude, int height);