





TECNOLÓGICO NACIONAL DE MÉXICO INSTITUTO TECNOLÓGICO DE TIJUANA

SUBDIRECCIÓN ACADÉMICA DEPARTAMENTO DE SISTEMAS Y COMPUTACIÓN

Tarea Patrón observer

Docente

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INGENIERÍA EN TECNOLOGÍAS DE LA INFORMACIÓN Y COMUNICACIONES

Patrones de diseño Sergio Alberto Garza Aguilar 15211700

06 de octubre del 2021

Practica patrón observer

Capturas

Display.java

Condicion_acutual.java

```
SergioG93 Patron Strategi
                                                                                                                       Latest commit 76c265a 7 minutes ago 🐧 History
At 1 contributor
                                                                                                                                   Raw Blame 🖫 🖟 🗷 🗓
23 lines (19 sloc) | 618 Bytes
   2 public class Condicion_actual implements Observer, Display {
        private float temperatura;
        private Subject clima;
        public Condicion_actual(Subject clima) {
         this.clima = clima;
         clima.registerObserver(this);
 10
 11
 12
        public void update(float temperatura, float humedad, float pressure) {
 13
         this.temperatura = temperatura;
         this.humedad = humedad;
 14
 15
         display();
 16
 17
 18
        public void display() {
         System.out.println("Condiciones Actuales: " + temperatura
 19
           + "F grados y " + humedad + "% humedad");
 20
 21
 22
```

Mostrar_clima.java

```
SergioG93 Patron Strategi
                                                                                                                                                       Latest commit 76c265a 8 minutes ago 🖰 History
A 1 contributor
                                                                                                                                                                       Raw Blame 🖵 🗗 / 🗓
15 lines (12 sloc) | 447 Bytes
    1 public class Mostrar_clima {
            public static void main(String[] args) {
            clima clima = new clima();
            Condicion_actual Condicion_actual =
          new Condition_actual(clima);
mediciones statisticsDisplay = new mediciones(clima);
pronostico forecastDisplay = new pronostico(clima);
  10
           clima.setMeasurements(80, 65, 30.4f);
  11
          clima.setMeasurements(82, 70, 29.2f);
clima.setMeasurements(78, 90, 29.2f);
  12
  13
  14
  15
```

Observer.java

Subject.java

```
SergioG93 Patron Strategi

At 1 contributor

5 lines (5 sloc) | 156 Bytes

1 public interface Subject {
2 public void registerObserver (Observer o);
3 public void removeObserver(Observer o);
4 public void notifyObservers();
5 }
```

Clima.java

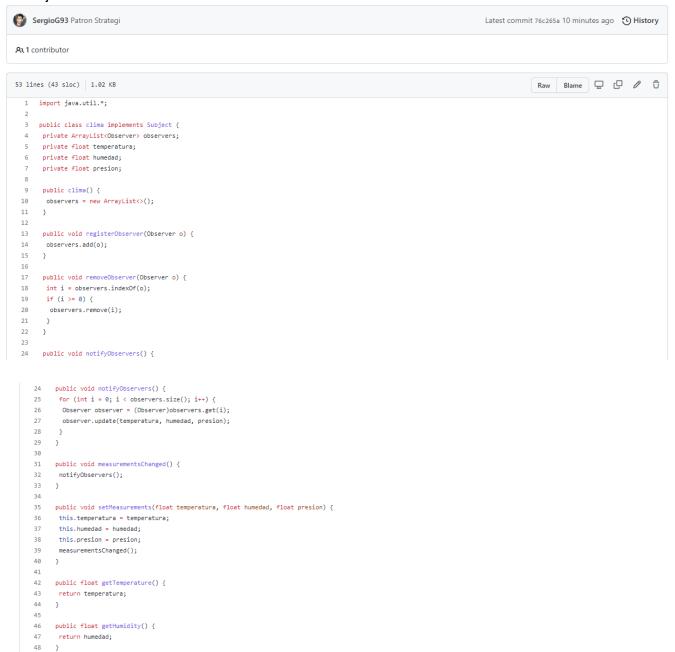
49

51

52 } 53 }

public float getPressure() {

return presion;



mediciones.java

```
SergioG93 Patron Strategi
                                                                                                                                                                    Latest commit 76c265a 12 minutes ago 🕚 History
Αλ 1 contributor
                                                                                                                                                                                      Raw Blame 🖵 🗗 🗷 🗓
34 lines (26 sloc) | 770 Bytes
            private float maxTemp = 0.0f;
private float minTemp = 200;
private float tempSum= 0.0f;
            private clima clima;
            public mediciones(clima weatherData) {
             this.clima = weatherData;
weatherData.registerObserver(this);
  10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
             public void update(float temp, float humidity, float pressure) {
              numReadings++;
              if (temp > maxTemp) {
              if (temp < minTemp) {</pre>
               minTemp = temp;
             public void display() {
  29
30
31
32
              System.out.println("Media/Maxima/Minima temperatura = " + (tempSum / numReadings) + "/" + maxTemp + "/" + minTemp);
  33
34
```

pronostico.java

```
SergioG93 Patron Strategi
                                                                                                                                 Latest commit 76c265a 13 minutes ago 🕚 History
At 1 contributor
                                                                                                                                               Raw Blame 🖵 🗗 🗷 🗓
28 lines (24 sloc) | 862 Bytes
  1 public class pronostico implements Observer, Display {
        private float currentPressure = 29.92f;
         private float lastPressure;
        private clima clima;
         public pronostico(clima weatherData) {
           this.clima = weatherData;
          weatherData.registerObserver(this);
 11
         public void update(float temp, float humidity, float pressure) {
 12
13
                        lastPressure = currentPressure;
          currentPressure = pressure;
 15
           display();
 16
17
 18
          public void display() {
           System.out.print("Pronostico: ");
           if (currentPressure > lastPressure) {
   System.out.println("Dia perfecto para la playa");
 20
 21
 22
           } else if (currentPressure == lastPressure) {
           System.out.println("Tenemos un hermoso dia");
           } else if (currentPressure < lastPressure) {
           System.out.println("Mucho frio ponte un sueter");
 26
```

Salida de Código (Visual Studio Code)

