TD03 Correction

Matière : PROGRAMMATION OBJET | **Classes : SEM2**

```
package meteo;
public class MeteoVille {
  // Constantes
  public static final String UNITE_TEMP = "°C";
  public static final String UNITE_VITESSE = "Km/h";
  public static final String UNITE_QUANTITE = "mm";
  public static final String UNITE_HEURE = "h";
  public static final String UNITE_MINUTE = "m";
  // Attributs
  private String ville;
  private String date;
  private int temp;
  private int vVent;
  private int qPluie;
  private int hL;
  private int mL;
  private int hC;
  private int mC;
  // Constructeurs
  public MeteoVille(String ville, String date) {
    this.ville = ville;
    this.date = date;
    temp = 0;
    vVent = 0;
    qPluie = 0;
    hL = 0;
    mL = 0;
    hC = 0;
    mC = 0;
  }
  // Setters et Getters
  public void setTemp(int temp) {
    this.temp = temp;
  }
  public void setvVent(int vVent) {
    this.vVent = vVent;
  }
  public void setqPluie(int qPluie) {
    this.qPluie = qPluie;
  }

  public void sethL(int hL) {
    this.hL = hL;
  }
  public void setmL(int mL) {
    this.mL = mL;
  }
```

```
  public void sethC(int hC) {
    this.hC = hC;
  }

  public void setmC(int mC) {
    this.mC = mC;
  }
  public int getTemp() {
    return temp;
  }
  // Méthodes
  public void afficher() {
    System.out.println("Ville: " + ville);
    System.out.println("Date: " + date);
    System.out.println("Température: " + temp + UNITE_TEMP);
    System.out.println("Vitesse vent: " + vVent + UNITE_VITESSE);
    System.out.println("Quantité pluie: " + qPluie + UNITE_QUANTITE);
    System.out.println("Lever Soleil: " + hL + UNITE_HEURE + ":" + mL +
UNITE_MINUTE);
    System.out.println("Coucher Soleil: " + hC + UNITE_HEURE + ":" + mC +
UNITE_MINUTE);
  }
  public void afficherEtatMer() {
    System.out.print("Etat mer: ");
    if (vVent > 0 && vVent < 15)
      System.out.println("Calme");
    else if (vVent < 30)
      System.out.println("Agitée");
    else
      System.out.println("Très Agitée");
  }
  public String getLongueurJournee() {
    String res = "";
    int lm = (hC * 60 + mC) - (hL * 60 + mL);
    int nbHeure = lm / 60;
    int nbMinute = lm % 60;
    res = nbHeure + " " + UNITE_HEURE + " " + nbMinute + " " + UNITE_MINUTE;
    return res;
  }
}
package meteo;

public class TestMeteoVille {
  public static void main(String[] args) {
    MeteoVille mv = new MeteoVille("Sfax", "18-11-2014");
    mv.setTemp(29);
    mv.setvVent(20);
    mv.setqPluie(25);
    mv.sethL(5);
    mv.setmL(10);
    mv.sethC(17);
    mv.setmL(10);
    System.out.println("Température: " + mv.getTemp());
    mv.afficher();
    mv.afficherEtatMer();
    System.out.println("La longueur de la journéeest :" +
                       mv.getLongueurJournee());
  }
}
```