Assignment No 12

```
object WeatherStats {
  def main(args: Array[String]): Unit = {
    val data = List(
      "Date,Temperature,DewPoint,WindSpeed",
      "2024-04-01,23.5,15.2,12.3",
      "2024-04-02,25.1,16.3,10.2",
      "2024-04-03,21.0,14.1,8.5"
    )
    val weatherRecords = data.tail
    val parsedData: List[(Double, Double, Double)] = weatherRecords.map { line =>
      val fields = line.split(",")
      val temperature = fields(1).toDouble
      val dewPoint = fields(2).toDouble
      val windSpeed = fields(3).toDouble
      (temperature, dewPoint, windSpeed)
    }
    val totalRecords = parsedData.length
    val (tempSum, dewSum, windSum) = parsedData.foldLeft((0.0, 0.0, 0.0)) {
      case ((sumT, sumD, sumW), (t, d, w)) =>
        (sumT + t, sumD + d, sumW + w)
    }
    val avgTemp = tempSum / totalRecords
    val avgDew = dewSum / totalRecords
```

```
    val avgWind = windSum / totalRecords
    println(f"Average Temperature: $avgTemp%.2f °C")
    println(f"Average Dew Point: $avgDew%.2f °C")
    println(f"Average Wind Speed: $avgWind%.2f km/h")
  }
}
```

Output:

```
PS D:\Spark Programs> scalac WEATHER.scala
PS D:\Spark Programs> scala  WEATHER.scala
Average Temperature: 23.20 °C
Average Dew Point: 15.20 °C
Average Wind Speed: 10.33 km/h
PS D:\Spark Programs>
```