



### Project #2

### Assignment #3 – Data Processing with Spark RDD

28<sup>th</sup> November 2024

### **Advanced Infrastructures for Data Science**

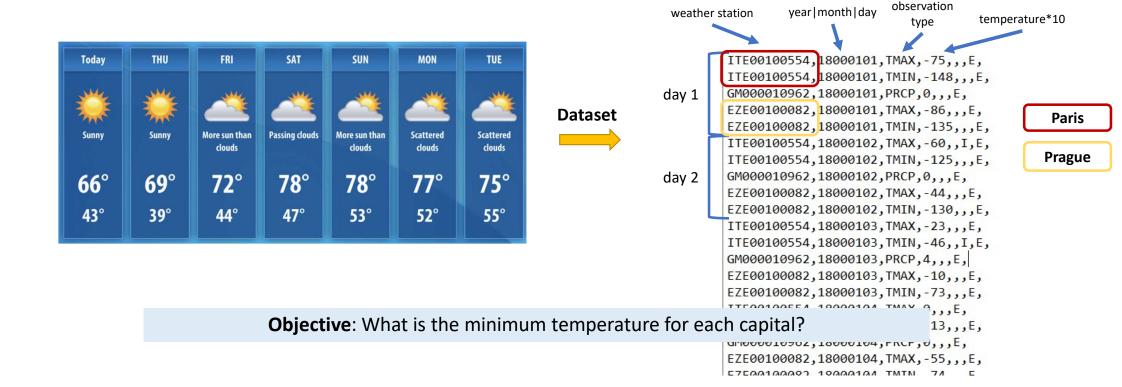
Pedro Neves, pedroneves@dei.uc.pt, 2024/2025

Master in Data Science and Engineering (MDSE) Course

## Task #1 – Minimum Temperature Per Capital

Assignment #3

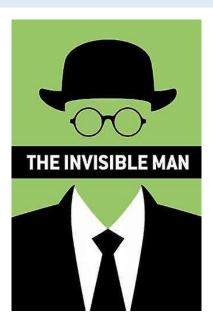
#### **Context:** Daily weather dataset



# Task #2 – Obtain the Word Frequency in a Book

Assignment #3

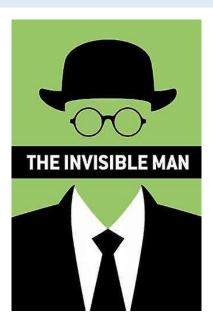
**Context:** Book dataset



**Objective**: What is the word frequency in the book?

# Task #3 — Sort the Word Frequency in a Book Assignment #3

**Context:** Book dataset



**Objective**: What is the (sorted) word frequency in the book?

# Task #4 — Obtain the Total Amount Spent by Customer Assignment #3

**Context:** Shopping Store Dataset





Customer_ID	Product_ID	Amount
344	983	45.1
99	574	7.08
344	24	102.2
43	241	37.08
99	230	61.89

**Objective**: What is the total amount spent by each customer?

# Task #5 — Sort the Total Amount Spent by Customer Assignment #3

### **Context:** Shopping Store Dataset





Customer_ID	Product_ID	Amount
344	983	45.1
99	574	7.08
344	24	102.2
43	241	37.08
99	230	61.89

**Objective**: What is the (sorted) total amount spent by each customer?

### Task #6 – Most Popular Superhero

Assignment #3

#### **Context:** Superheroes dataset



Dataset

**Objective**: Find the most popular superhero?

### Task #7 – Least Popular Superhero

Assignment #3

#### **Context:** Superheroes dataset





**Objective**: Find the least popular superhero?

