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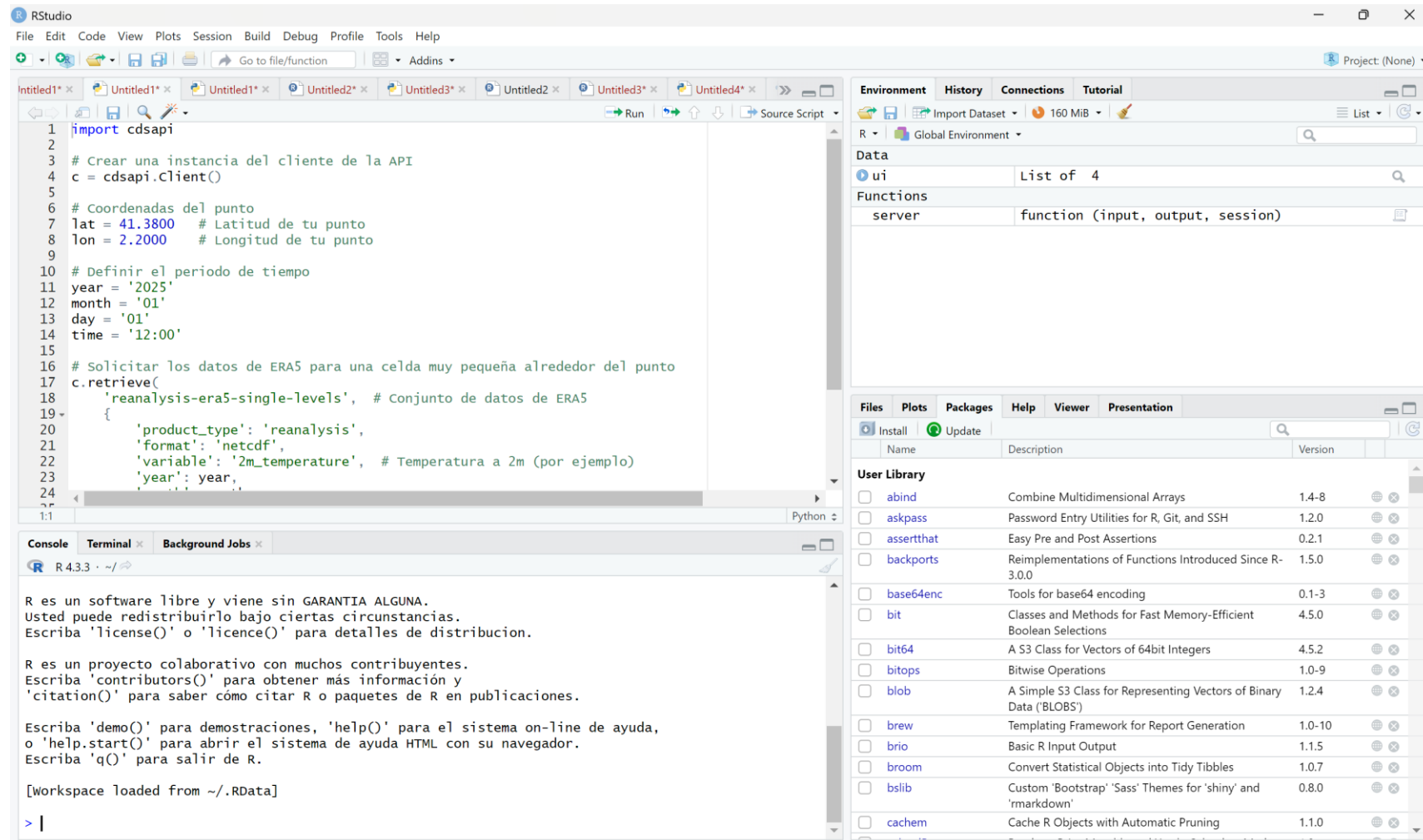
# LECTURE VII. INTRODUCTION TO RSTUDIO



- *Rstudio is an integrated development environment (IDE) for R, a programming language used for statistical computing and data analysis*
- *It offers a user-friendly interface with four main panels:*
  - *Script editor*
  - *Console*
  - *Environment/history*
  - *Plots/files/help*
- *Rstudio is widely used by researchers, analysts, and data scientists across different fields*

# WHAT IS RSTUDIO?

- It offers a user-friendly interface with four main panels:



# WHY RSTUDIO?

*Open-source and free*

*Large community support*

*Compatible with R packages for data visualization, modelling and geospatial analysis*

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# RSTUDIO IN CLIMATOLOGY

- Rstudio is extensively used in climatology for:
  - Data processing: Handling large Climate datasets (e-g-. ERA5, ECA&D)
  - Visualization: Creating maps, time series, and Climate anomaly plots
  - Statistical analysis: Trend detection, extreme event analysis, Climate indicators
- Common R packages for climatology:
  - Climdex.pcic, raster, terra, ggplot2, climate4R, ecmwfr



RandRstudio-Install.docx

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RStudio-2024.12.1-563.exe

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R-4.4.2-win.exe

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First, execute r, then execute Rstudio.

# RSTUDIO INSTALL