Executing A1

Graphical user interface, text, application, email

Description automatically generated

Executing B1

Graphical user interface, text, application, email

Description automatically generated

Executing C1

Graphical user interface, application

Description automatically generated

Executing A2

Graphical user interface, text, application, email

Description automatically generatedExecuting B2

Graphical user interface, text, application

Description automatically generated

Executing C2

Graphical user interface, application

Description automatically generated

Supplementary:

1.

Graphical user interface, application

Description automatically generated

A choice box is added to choose between tasks.

2.

Graphical user interface, application

Description automatically generated

An error message pops up if no countries are selected.

3.

Graphical user interface

Description automatically generated

Console prints out the selected data

4.

Graphical user interface, text, application

Description automatically generated

Error message pops up when selected data is too early.

5.

Graphical user interface

Description automatically generated

Error message pops when start date is after today.

6.

Graphical user interface, text, application

Description automatically generated

Error message pops up if end date is before start date.

Algorithm for extracting date:

For table task, given a data A, our algorithm extract not just the record closest to the date A. When the closest record have some null field, it extract the closest non-null field.

Limitations:

Some data of the excel is null and the program is not able to extract data from such field.