Part A Task 1.1

1.1

Aggregation

(2 marks)

- 2 marks: an accurate data frame.
- the outside of 2020 boundar
- -0.5 mar   rrect attribute summary.
- 0 mark: 3 or more variables are incorrectly summarised or not attempted.

Part A Task 1.2

1.2

Add a new variable

(1 mark)

- 1 mark: correct output as the output are incorre
- 0 mark: not attempted, incorrect values for the new variable

Part A Task 1 – Overall

Task 1 Overall

Mark awarded as the break down above.

, and to standard output.

1 Missing either csv or standard the command 'python parta1.py owid-covid-data-2020-monthly.csv' generates errors or no output.

Part A Task 2.1

Task 2.1

Confirmed cases in linear scale

(1 mark)

ate plot. with appropriate ticks, and tick labels.

- -0.5 mar variables used but not plotted along the specified axis.

- 0 mark: incorrect variable pairs used or incorrect plot produced.

Part A Task 2.2

Task 2.2

Confirmed cases in log scale

(1 mark)

te plot, with appropriate ...dks, and tick labels.

- 0.5 mark ...ariables used but not plotted al ...ecified axis.
- 0 mark: incorrect variable pairs used, incorrect scales used, or incorrect plot produced.

Part A Task 2 – Overall

Task 2 Overall

the break down above.

sues with either of the plots, e.g. ls, etc.

- **0 mark fo** issing scatter-a.png or scatter-a.png files from the output. Or Or the command 'python parta2.py scatter-a.png scatter-b.png' generates errors or no output.

Part A Task 3.1

Task 3.1 preprocessing reporting (1.5 marks)

- 1.5 marks: excellent, clear and succinct explanations to the pre-processing. Good insights data.

ations to the pre-processing steps and expression

imitations included and or es ambiguous.

- 0.5 mark: some obvious omissions of some pre-processing steps, data source, and limitations of the data.

- 0 mark: no explanations or explanations are incoherent, and difficult to understand.

Part A Task 3.2

Task 3.2 visual analysis (1.5 marks)

- 1.5 marks: plots included and excellent, clear, and succinct explanations of the plots and patterns.
- ations of the plots and described but may omit some clear patte nations less clear and at times amb
- 0.5 mark: reasonable descriptions of the plots and the patterns but may contain some incorrect interpretations or missing key components.
- 0 mark: no explanations or explanations are incoherent, and difficult to understand

Part A Task 3.3

Task 3.3

Contrasting discussion (1 mark)

- ... and meaningful discussions.

- ...sion make sense but may be vague, con... ...t information, or miss key differences between the two scatter plots.

- 0 mark: no discussions or discussions are incoherent, and difficult to understand

Part A Task 3 – Overall

Task 3 Overall

- Mark awar reak down above.
- -1 mark: two plots are not included in the report.

Part B Task 1

Regular Expressions

(1 mark)

- 1 mark: All of the document IDs are

d and the file formatted

- 0.5 mark ⋯⋯⋯⋯⋯ an 75% of document IDs

are corre ⋯⋯⋯⋯⋯ fied or there are issues with the file format

- 0 marks: The output is missing or completely incorrect

Part B Task 2

Preprocessing (1 mark)

lding and non-alphabetic

e performed correctly

- 0.5 marks: e folding or non-alphabetic character r erformed correctly
- 0 marks: The output is missing or neither case folding nor character removal is performed correctly

Part B Task 3

Basic Search (2 marks)

tput passes all of the ses

- 1 mark: ut passes at least half of the provided test cases
- 0 marks: The output is missing or fails all of the provided test cases

Part B Task 4

Advanced Search

(2 marks)

tput passes all of the ses

- 1 mark: ut passes at least half of the provided test cases
- 0 marks: The output is missing or fails all of the provided test cases

Part B Task 5

Search Rankings (3 marks)

- 3 marks: The output passes all of the provided test
  asses two of the provided test
  cases
- 1 mark: The output passes one of the provided test cases
- 0 marks: The output is missing or fails all of the provided test cases

Part C

Git
(2 marks)

sary files have been pushed
repository, with a sensible
readme fi   mit comments

- 1 mark: A   y files have been pushed
  to the remote git repository

- 0 marks: The git repository does not contain
  the correct version of all necessary files