

Final Assessment in lieu of the Final Exam

Sem 1, 2021

Marking	Student Id	Student Name

Part Number	Sub Mark	Out of
Part A		15
Part B – Task 1		20
Part B – Task 2		40
Part B – Task 3		15
Part B – Task 4		10
Total Mark	0	100

Part A

Items	Comments	Mark	Out of
Q1	•		3
Q2	•		4
Q3	•		3
Q4	•		5
Part A total		0	15

Part B – Task 1

Items	Comments	Mark	Out of
Correctness			
Does the code of this part work correctly?			
1) Files Loaded successfully.	<input type="checkbox"/>	2	2
2) Dataframes are in tidy format.	<input type="checkbox"/>	2	2
3) Column names has been changed.	<input type="checkbox"/>	2	2
4) All date variables are in proper format.	<input type="checkbox"/>	2	2
5) All data has been merged in the master dataframe.	<input type="checkbox"/>	3	3
6) All NAs has been set to zero.	<input type="checkbox"/>	2	2
7) Date has been parsed into month and week.	<input type="checkbox"/>	2	2
Programming Style and Code Layout (1 mark each)		5	5
• Has the student used good names for naming the variables and used blank line to separate the code blocks?	<input type="checkbox"/>		
• Has the student used levels of indentation, so the code is easy to follow?	<input type="checkbox"/>		
• Has the student used comments to make the code easy to understand?	<input type="checkbox"/>		
• Has the submitted code included a prologue and a description at the beginning of the script?	<input type="checkbox"/>		
• Has the student submitted the output of console window after running the code of this part and identified which output is for which component?	<input type="checkbox"/>		
Part B – Task 1 total		20	20

Part B – Task 2

Items	Comments	Mark	Out of
Correctness			
Does the code of this part work correctly?			
1) 4 variables have been added ("CumCases", "CumDeaths", "CumRecovered", "CumTests").	<input type="checkbox"/>	4	4
2) 2 variables have been added ("Active", "FatalityRate").	<input type="checkbox"/>	3	3
3) 4 variables have been added ("Cases_1M_Pop", "Deaths_1M_Pop", "Recovered_1M_Pop", "Tests_1M_Pop").	<input type="checkbox"/>	4	4
4) The date and the death toll of the highest reported day across the world.	<input type="checkbox"/>	3	3
5) The graph of the cumulative data of (Infected Cases, Deaths, Recovered, Tests) is generated.	<input type="checkbox"/>	4	4
6) "lastDay_data" dataframe has been generated.	<input type="checkbox"/>	3	3
7) Top 10 countries worldwide with current active cases has been extracted.	<input type="checkbox"/>	4	4
8) Continent statistics have been generated.	<input type="checkbox"/>	4	4
9) The graph for the top 10 countries has been generated.	<input type="checkbox"/>	4	4
10) Facet graph for the top 10 countries has been generated.	<input type="checkbox"/>	4	4
Programming Style and Code Layout (1 mark each)		3	3
• Has the student used good names for naming the objects and used blank line to separate the code blocks?	<input type="checkbox"/>		
• Has the student used comments to make the code easy to understand?	<input type="checkbox"/>		
• Has the student submitted the output of console window after running the code of this part and identified which output is for which component?	<input type="checkbox"/>		
Part B – Task 2 total		40	40

Part B – Task 3

Items	Comments	Mark	Out of
Correctness			
Does the code of this part work correctly?			
1) A dataframe for correlation data has been extracted.	<input type="checkbox"/>	2	2
2) Correlation matrix between all variables is generated and visualized.	<input type="checkbox"/>	2	2
3) Data has been divided into training and testing data.	<input type="checkbox"/>	2	2
4) A linear regression model between GDP and cumulative cases has been generated and evaluated.	<input type="checkbox"/>	3	3
5) A linear regression model between all variables and cumulative cases has been generated and evaluated.	<input type="checkbox"/>	3	3
Programming Style and Code Layout (1 mark each)		3	3
• Has the student used good names for naming the objects and used blank line to separate the code blocks?	<input type="checkbox"/>		
• Has the student used comments to make the code easy to understand?	<input type="checkbox"/>		
• Has the student submitted the output of console window after running the code of this part and identified which output is for which component?	<input type="checkbox"/>		
Part B – Task 3 total		15	15

Part B – Task 4

Items	Comments	Mark	Out of
1) At least 3 components of Task 2 contents are added.	<input type="checkbox"/>	4	4
2) At least 3 components of Task 3 contents are added.	<input type="checkbox"/>	4	4
3) Are there any proper description/caption for the graphs and the tables?	<input type="checkbox"/>	2	2
Part B – Task 4 total		10	10