UGC 1201 – Computer Studies II
Group Assignment – Python Programming
Lecturer: Lenandlar Singh
Submission – Sunday May 23, 2021, 11:59 P.M
Group Size – Minimum 6 – Maximum 8 (6-8)

Requirements

General

You are required to write a Python program to process an identified dataset (.csv format). The details are provided in the section below.

Dataset

You are required to identify a dataset that is freely available online and related to the COVID19 Pandemic. Once this dataset is identified, you are required to seek confirmation and permission from the lecturer about its use. Many datasets are available online. Please search.

Group Members and Communication

You will need to submit in Moodle your group member names, USI, and an identified group leader who will be responsible for all assignment communication, datasets, final assignment etc.

Program Details.

Your python program must accomplish the following:

- Read selected data file and output its content
- Output statistical summaries of the data file. You will decide on what summaries are appropriate and useful
- Produce at least 2 graphs on some aspect of the dataset. You will decide what graphs/charts you will produce
- Perform and output results of comparative statistical analyses of the data of any two aspects of data in the dataset e.g. if the dataset contains data by gender, months, years etc. comparisons can be done among those.
- Perform Any ONE other creative analysis of some aspect of the data in the dataset.

You can explore statistics libraries in Python to assist you. You can explore the Pandas library for graphs and charts.

Grading

You will need to submit your assignment (python program and data file to the Moodle course page with the list of group members (name and USIs). You will also need to submit a short report on the contribution of each group member towards the project.

Evaluation Criteria

Your tasks will be graded using the following list of criteria:

- Creativity and Functionality of your program, including choice of analyses
- Organization of your code e.g. good use of functions, names, etc.

Plagiarism

Any evidence of collusion between groups or related acts will result in an automatic zero-mark allocation and each member of the group will be reported to the relevant university office responsible for handling plagiarism.