Data Insight

Knowledge for Insight from Data

DATA SCIENTIST PROGRAM

Assignment - Writing Simple Apps with Python

Currently, you are being introduced to the python programming language. In this assignment, you will wield the power of python to create simple applications.

Write two python programs, with each accomplishing a specific task using Jupyter notebooks or otherwise. Choose one task from the list below and a second task of your choice (not from the list).

1. Count character occurrences in a given word, phrase or sentence.
2. Convert roman numbers to decimals.
3. Body Mass Index (BMI) calculator.
4. Password generator from first names.
5. Acronym generator from long words or phrases.
6. Email splitter for separating the username and domain name.
7. Email verifier, which checks an email for the @ symbol.
8. Convert temperature in Fahrenheit to Celsius.
9. Currency converter.
10. Simple interest calculator.
11. Arithmetic calculator.
12. Compound interest calculator.

Upload your notebooks to your GitHub repository.

Write a blog for each application, explaining your code and the functionality of your program. Your blog should be written here with code from your notebook embedded (**Do not embed code images!** See the options you have for embedding your code).

Submit the links to your notebooks and blogs here.