Question 4

In this unit, I learned the basic building blocks for python and moved on to more advanced functions available in programming and python. I experienced a new form of Integrated development Environment (IDE) for python, which I did not know existed. Google Colab IDE was a new form of web-hosted IDE which I did not know of and has been a very helpful tool that our tutor found. Listening to the previous experience of the unit, where many people faced the problem with their IDE, made me feel glad to be using an IDE that didn’t require to be configured and I would not have to download it. I am also able to learn the basics of the GitHub repository, which is an important skill for any developer and to say that I’ve learned how to navigate through GitHub while it is still basic helps in showing my professionalism in learning programming.

The workshop for this unit is a great walkthrough of how we can learn to program, as my previous experience in learning programming was to handle the worksheets on my own and get the tutor's help when needed. Having a proper walkthrough of the learning objectives each week and showing us how the code works and what can be done, helps me to visually learn before applying on my own at home when programming for the assignment and weekly journal. The workshop went greatly into detail on best practices and even showed little mistakes we could make on syntax and logical errors which may cause the program to not run, while we are looking for the problem. The workshop laid out the way a programmer should think which is to solve the problem and get a logical workaround on paper like pseudocodes and what steps we should take to implement the codes before coding. Learning through this unit, I learned that programming and thinking like a programmer is the difficult portion and coding is the easy portion of the programming.

In the assignments, we had 2 assignments which were the major assignment and the weekly journal. The weekly journal was very helpful to give my feedback on the classes weekly and try out the worksheets prepared by the tutor. The worksheets in the weekly journal helped me understand the concepts covered in the week and even when I missed certain classes, I was able to attempt them on my own and learn through the steps placed in the worksheets. The weekly journal was a good indicator of how I am doing compared to the class progression and at the end, I would have a GitHub repository of worksheets which I can look back at and use to relearn the work I’ve done. The Major assignment was a challenge that has helped me learn more about pandas and using google to learn about the documentation of python. As I had to visualise graphs and analyse using the graphs, I was able to learn analysis skills required for business as well as technical skills of data visualisation and programming.

The lectures and lecture videos have helped me to learn the theory and the basic idea behind the concepts we would be handling in the lab each week. Understanding what the code does and what it is used to perform helps us to better understand while we are coding rather than blindly coding. Coding concepts are better understood through the lectures and are essential to learning about them before going into lab lessons blindly and not knowing the application of the codes and the appropriate times for the code to be used.

Appendix

GitHub Repository Link:

<https://github.com/ssmb89/Classes>

Weekly Journal 1

This week, I started programming on Python. I feel that i am ahead of the classes with a little background on programming. Hope it helps me.

Weekly Journal 2

Having a little background in programming has helped me in this lab session. While i wasn't able to attend the lesson face to face, i attempted the worksheets and python files. I would say i have the basics for the programming language and is making me confident in the class. I know my strengths and would definetely need more practice and help in the further parts of progrmaming, but for now i am comfortable with the learning and the pace.

Weekly Journal 3

This week has taught me on the python fuctions and creating them. It was exciting to be learning new ways of handling python and what it can do. Transferring over my knowledge from C# has been useful but python has been a fun language to learn and play around with. The tutor is also very engaging and helpful in the classes with any troubles we run into. Overall, i am having fun learning this unit and is really enjoyable.

Weekly Journal 4

In this week's tutorial, I got to learn new things which I haven't learned before. Through this week's lesson, I came across functions within programming that I didn't know was possible. The learning of new things in the class, it makes motivates me to learn more and try new things in programming.

Weekly Journal 5

Learning about Modularity and how connecting python files to other python files allows for the use of functions has allowed me to understand more about python. I believe this week's topics would be useful if I was to continue further as a programmer and it would help in the clarity of the programs I write. The DMOJ problem was also fun to attempt and using that platform to practice would be a good idea.

Weekly Journal 6

Testing and Debugging were fun. But if I was to not attend the class, I probably would be lost in this week's lab. In completing the homework I was confused about the task required but I believe I have done my best in attempting both and made an effort to try to do the best on the testing. While many methods were taught, I have my preferences and they are shown in the homework submitted below. I feel most comfortable with the methods I've used and hope to be using these methods in the future.

Weekly Journal 7

The lessons from this week would be very useful in managing my codes properly. While I didn't catch everything said in class properly, I can rewatch the section to understand better what the tutor was trying to portray. I didn't realize a lot of documentation went into the beginning of programming, and hope it would help me better understand my code in the future. Overall, this week's lesson would greatly help me in my quest to be a good programmer.

The link to the binder of my text summarizer is linked below:

<https://notebooks.gesis.org/binder/jupyter/user/ssmb89-text_summariser-h4094prk/lab>