To start, my project idea is a quote of the day generator. The generator is based on how the user is feeling and will provide multiple quotes given the user is not satisfied with the first quote shown. The current state of my project is working, however there are a few minor incomplete components, in which I didn't understand how to manipulate in order to receive my desired outcome. There are times when the generator will provide the same quote after one another, this is because it is randomised and when the generator does not have a quote for the emotion it will still ask if the user is satisfied with the quote given when they hadn't been given a quote. However, my goal over the semester was to create a working quote generator which has been done, unfortunately just with those minor complications but as a result has improved my knowledge and understanding about code and algorithms.

As a result of creating the quote generator, I have learned many elements about coding, and algorithms. To start, “code is a general term for a wide variety of different concrete programming languages and associated platforms” (Berry et al, 2011). The coding language I experimented with and used when creating my quote generator is python. Python is a universal coding language that is very large in today's society, therefore having knowledge about it and how to navigate python is significantly important. I strengthened my code literacy during the semester as I developed my project by practicing and experimenting with python and correcting my errors that I found as a result of repeated testing. In order to develop my python skills, I attended the Working with Data and Code tutorials as well as completed the Linkedin learning. It was as a result of this that as well as exploring similar projects online that my coding skills were developed thus allowing me to complete my project. It is evident that to maximise and better your learning, you have to practice, test and build on the code and algorithms made in order to address your specific needs (Maitra, 2022) showcasing that it is through practice that one's coding skills, including mine can be developed.

Algorithms are also significant in the context of a quote generator as algorithms according to Mittelstadt et al (2016) are a mathematical construct which gets implemented into an application or technology. Algorithms have been implemented in my quote generator as its operation has been tweaked in relation to the specific use of quotes (Mittelstadt et al, 2016). Over the time of creating my project I increased the capacity of the algorithm as I allowed it to generate multiple quotes after being asked ‘are you satisfied with the quote given’. Originally, I had difficulty being able to generate another quote, however I realised I had to implement more code and thus another algorithm in order to do this multiple times. Therefore, algorithms have had a significant impact on my project and increased my ability to strengthen my code.

Further, it is evident that I have learnt a significant amount as a result of completing this project. Over the semester, I completed small steps in order to complete the project on time and to the best of my ability. At the beginning I gathered around four quotes for eight different emotions which broadened the ability for the quote generator to provide different options. Then, during the course of the semester I researched other quote generators to see how they were created and it was as a result of these that I had a greater knowledge of how to create a quote generator using python coding. Over the course of the semester, I played a significant role in creating my project and bettering my knowledge about python coding. When completing my project I found that by looking at other similar projects and youtube

tutorial videos I could develop my coding further. I also found that trial and error with my code worked well and therefore allowed me to achieve my desired result. Although ultimately, in the future, I would love to develop my code further to be able to add photos with the quotes. This would allow for a better more visual experience for the user and also showcase greater coding skills for myself, thus in the future it would be beneficial for me to add more elements to the design.

As I developed my project I encountered some issues such as syntax errors in which I would forget the quotation marks or certain brackets when writing the python code. I also, when completing my project, deleted a cell in an aim to delete a section of my code which ended up deleting my entire project. This as a result set me back however, I had saved other drafts along the way, allowing me to not lose a large portion of my project. Therefore, I was able to still complete my project on time without being set back too far. Further, it is through code and algorithm theories explored earlier that my physical coding generator was supported theoretically and it is through key literature that I was able to explore and understand the theories behind my quote generator. This is further supported by my weekly reflections, which showcases how I understand the theories behind the code as well as sticking to a strict timeline, ultimately allowing me to complete my project on time while also giving myself time to complete the critical reflection about my role in the data and code project.

Therefore, It is evident that as a result of this project my coding ability and knowledge have increased and thus will benefit me in the future. According to Ford (2015) “Every month code changes the world in some interesting, wonderful or disturbing way”, showcasing just how significant code is. It is through physically learning code through algorithms as well as the critical insights and study learnt throughout the semester that my knowledge and understanding has been improved significantly. Thus, learning code is an increasingly popular and important skill in today's society and it is through developing my own quote stimulator using python coding I have developed my python knowledge and understanding, put into practice this knowledge and created a working quote generator.

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