**Persistence and research** – *evidence of resilience and pushing through to answer questions you previously did not know the answer to*

* I am new to coding and had no advance experience using Python and PyCharm. I had to show resilience when I had error codes and putting together clean code. I found this task particularly challenging because it was the first time I used python individually on this scale. To help with the challenges I encountered I used some of the resources provided such as, stack overflow which helped in unpacking some of the error codes I came across, or how to formulate codes well enough to be able to run tests. One error that stood out to me in particular was importing the pytest package. Here I had to do some online research and eventually follow the steps to manually install the package, which eventually enabled me to run the test. I had to use my own initiatives to make decisions based on logical reasons from the information.

**Knowledge and comprehension** *– clearly understand the brief set and confidently attempts all parts of the challenge.*

* I understood some of what the brief set. I had to pick a programming language which I did with ease as python was the only familiar one to me. I understood the process of using command lines and was confident in understanding some of the code which was used to dictate how a user would interact with YouTube in real life. While my main difficulties were centred around bringing this code together to successfully run tests, I had taken the necessary steps by trying to attempt task 1. I focused on attempting this task in particular and trying to get successful code to run by trying to closely follow the brief. However, despite the fact I was not successful I still learnt how to navigate my way through python better.

**Creativity and design** – *nuanced, innovative, and well thought out approach to designing the solution.*

* I had to take innovative and logical solutions to see what looked like appropriate code. I made a plan of what I could change without corrupting the commands. To be creative I attempted to change the type of song and create playlists. This was so I could experiment working with PyCharm. While this code didn’t work it was interesting to see how with more experience I could experiment with this code.

**Code structure and clean code** – *demonstrate the ability to produce understandable consistent and maintainable clean code.*

* To demonstrate the code structure, I tried to make sure that when I was defining specific functions, I had some text that would dictate what I was doing. This was so others could understand how I came to the outcome I did and where I went wrong with the code. I made sure everything was in chronological order from what the brief outlined. In future I would try to explain the reasoning for using this specific type of code so those reading the code would understand the reasoning in a more sophisticated way.

**Problem solving, analysis, evaluation –** *draw reasoned and system conclusions from new challenges presented re-evaluating and adapting where needed throughout the process.*

* I encountered a variety of problems that I would need to exercise all my existing knowledge to solve. I examined the error codes I received and analysed them to see how I could solve them. I further used more online resources, my peers and coding forums to aid in problem solving. To make sure I could solve analyse and evaluate my errors I wrote them down and tackled them in chronological order. This approach was interesting because there were times where I adjusted code earlier on in the script and it solved errors further down. As a result, I was able to solve some of these errors and understand some of the code and run it without getting errors. While I did not get any tests to pass, I gained some knowledge in how to solve problems when working with python.

**Parts completed** – *attempted to produce workable solution to each part of the challenges*.

* I only completed task one due to difficulties in producing the efficient command lines. Because of this I focused on trying my best to understand and carry out task one to understand some of the basic functions of python and develop my knowledge in coding. I tried to come up with some solutions for the errors I encountered within part one and was unable to come up with useful workable solutions. In future I would spend more time breaking down each section of the code that was provided and use further in-depth resources to make sure I wrote a workable piece of code