A01 Specification

Outcomes

This assignment will test your understanding of variable types, conditionals and functions.

Submission

The Assignment is due on the **19th of April** at **10pm**. Submission will be via Moodle. If for any reason there are issues with the submission to Moodle it should be emailed to nick.reynolds@mq.edu.au before the submission time.

Task

You are to make a simple playlist manager application in Python. The application will have a number of key functionalities:

1. **Add** a track to the playlist, storing the song title, artist and duration
2. **Delete** a track from the playlist by specifying the artist and song title
3. **Play** a track from the playlist, printing out what is currently playing
4. **Skip** to the next track in the playlist
5. Calculate the **total time** for the playlist i.e. how long the playlist goes for
6. **Search** for a track in the playlist by matching text in the song title or artist

Note that the application doesn't actually play music.

Starter Pack

Please download the zip here. It includes two files:
- A01.py
  This is the file you will do your work in. Each function has already been defined for you. Note that you can remove the "pass" keyword once you have written your body.
- Test.py
  This is the testing file that will check your work, running it will tell you what failed and why. Do not modify this file!

Hints

- You may not have learned everything you need for this assignment in class. A big part of software development is learning how to find resources online, go back and look through my reference material.
- You'll notice that when we pass a list to a function and add a value to it, the original list will change as well (unlike strings or integers!). This is called mutability, see the above point!

Contact me with any questions or concerns. I'm here to help: nick.reynolds@mq.edu.au