**Tenth guided Guided Project - Lottery App**

This project was to develop code which could be used in a mobile app to help gambling addicts. Probability calculations were performed for a national lottery and easy to read print statements generated to help the addict understand the low chances of success when playing the lottery.

This project was completed in a Jupyter notebook using Python, the random library and pandas. The steps of the project are outlined below:

* Read in csv files using pandas.
* Create a number of functions.
  + Calculate factorials
  + Calculate combinations
  + Calculate the probability of winning the lottery with a given number of tickets
  + Calculate the probability of matching some of the lottery numbers
  + Determine if a randomly drawn ticket matched any historical lottery ticket
* Print out easy to read sentences to help the gambling addict understand the low probability of success playing the lottery.