Answers to Assignment 6 Questions

*Task II*

* **Using K-means, can you identify the novices from the experts using only the app data?**

*Task III*

* **What does PC1 represent in your analysis?**
  + PC1 represents all 5 of our questions with relatively equal rate (43.96%, 45.03%, 46.90%, 41.11%, 46.36%). PC1 composes a relatively high 86.76% (cumulative proportion) of all the variance.

*Task IV*

* **If you could only choose one thing to predict the score for each member of your group (raw data variable, a cluster or a PC) what would it be and why?**
  + PC1 would be the best option for predicting the score of each member of the group because it is more representative of each
* **Based on your conclusion devise an intervention that would help novice members of your group improve their performance**
  + Novice members could repeat the activity daily for improved results.
  + Novice members can do fast pushups in the beginning to make up for the lost energy in the end, which results in less or no pushups.