**Analysis and Conclusions from PyCitySchool Data**

**PyCity Schools Analysis**

* We are tasked with the assignment to help the school board and mayor make strategic decisions regarding future school budgets and priorities.
* Summary of the district level schools are as given below:
  + There are a total of 15 schools in the district.
  + The student count in the district is 39170.
  + The total school budget for the district is $24649428.
  + The average math score throughout the school district is 78.98537145774827.
  + The average reading score throughout the school district is 81.87784018381414.
  + The percentage of students who passed math (math scores greater than or equal to 70) is 74.98%.
  + The percentage of students who passed reading (reading scores greater than or equal to 70) is 85.80%.
  + The percentage of students that passed both math and reading is 65.17%
  + Created a high-level snapshot of the district's key metrics in a DataFrame "district\_summary" that gives all of the above details as a DataFrame
* Summary of the school data is as under:
  + There are 2 types of schools in the district: charter and district schools.
  + Per student budget range varies from $(578-655) across different schools.

**Conclusions and Comparisons from the above Analysis:**

* Overall passing rates for the school do not directly corelate with the budget of the school. From the above data we can see that schools with higher budgets did not outperform schools with lower budgets in comparison.
* Small and Medium sized schools outperformed the large sized schools in terms of overall passing rates.
* The percentage of students passed in reading is more than percentage of students passed in math across all the schools in the district. This suggests the school district needs to focus on more the development of math curriculum.
* Overall passing percentage is better for Chater Schools when compared with District Schools data.