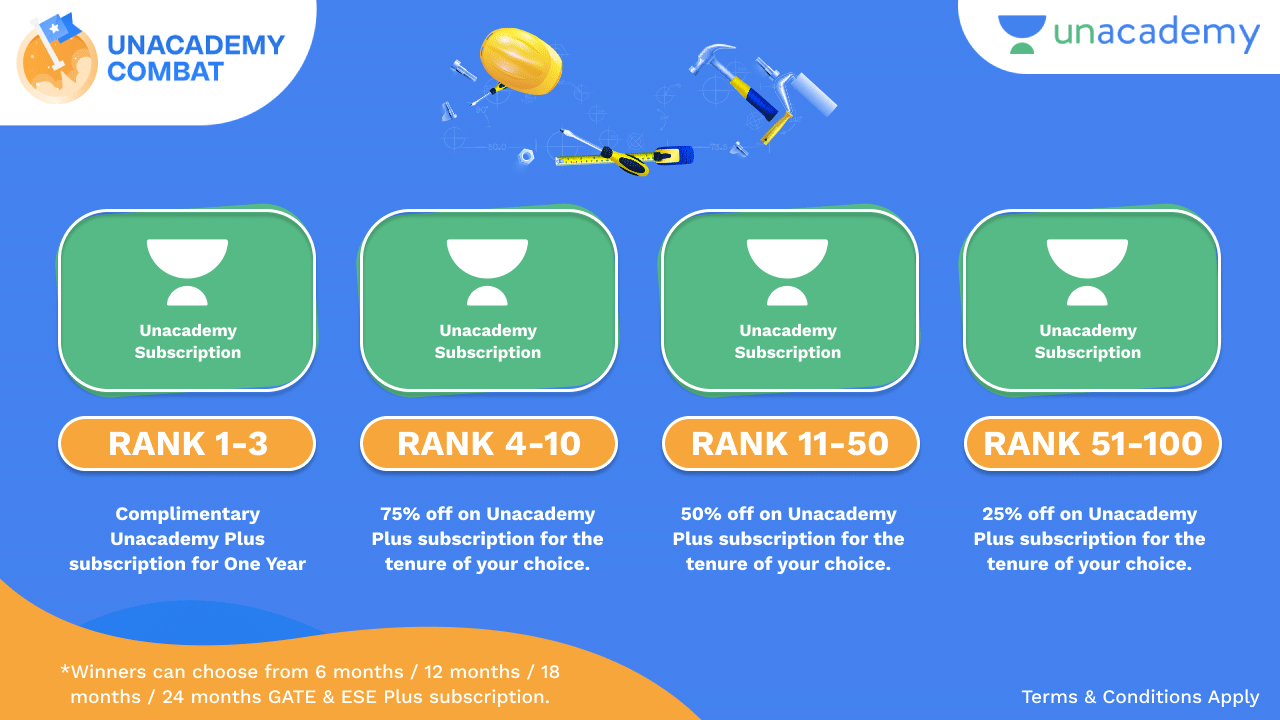
**Assignment**:

Shared with you is an excel file “Scholarship winners\_sanitized.xlsx” that contains Ranks of Learners in the weekly scholarship test for GATE. The scholarship test is branded as **Combat**. The rewards are as follows:



Terms and conditions:

1. Scholarship available only for non-subscribers.
2. A free user can have only 2 active scholarship codes at a time.

GATE Tests happen for **branches**

1. Mechanical Engineering
2. Civil Engineering
3. Computer Science (CS/IT)
4. Electrical Engineering
5. Electronics Engineering (ECE)

For each branch, consider

1. **Cohort** 1 – Rank 1-3
2. Cohort 2 – Rank 4-10
3. Cohort 3 – Rank 11- 50
4. Cohort 4 – Rank 51 - 100

Please analyse the raw data and provide answers to the following questions:

1. Is the ratio of Subscribers to non-subscribers in the top 100 rankers changing from One **combat** to another, do an analysis branch-wise and cohort-wise? What inference do we get from this?
2. Is the same set of students getting ranked from one **combat** to another?  
   Do the same analysis – branch-wise and cohort-wise
3. List out the UIDs of learners who are getting ranked within top 100 across multiple **Combats.** Whatinference do we draw from this?

Please share the source code (if you are using any, not necessary to use one - answers can be reached without a program being run as well), Use the best representation format at your disposal to present your answers.