**DSA Project Proposal**

Syed Muhammad Abdullah Al Muttaqui sa06146

Zain Ul Haq zh05616

Ali Zain as06998

**Objective**: Using the sorting algorithms we have learned so far, we intend to make a visualizer which would use these algorithms and visualize them for the people to better understand the logic behind these algorithms, how these algorithms are different from each other and how do they sort the data. To compose this, we will require:

* Knowledge of the sorting algorithms that we have done in this course ie selection, bubble, insertion, merge and quick sort.

**Outcome**: We would be using different libraries to visualize the algorithms and it would really help me get my hands on new things. Making this visualizer would help us understand the algorithms even better.

**Libraries/other resources to be used:**

* **Visual Studio code: We would be implementing our code on this software**
* **Tkinter: We just need a graphics library so we decided to use this one.**
* **Math: We would be using math library to keep the complexity count for the elementary operations.**