**Programming Assignment 4**

Clearly mention the central tendencies, null hypothesis, alternative hypothesis, and the test used.

Assume 95% of confidence interval. (Write your own code and compare your results using the standard libraries available.)

**Q1.** The sample data collected from a population of distance covered by the players in long jump is given in distance\_measured.csv file. Is the average distance greater than 80?

**Q2.** For the given sample dataset (weights.csv) determine if group 1 has higher weight compared to group 2? Assuming there is significant difference in the weights of both the groups, find the power.