Assignment 4

To address issues concerning the following document and diagrams, we are considering a random sample of 1000. The numbers of males and females in the sample are 500 and 500, respectively.

1. [Diagram A]: In the context of this study, what is the variable of interest?
2. [Diagram B]: What is the distribution of the sample?
3. [Diagram C]: What can you infer from the data presented in the table?

Fig. 1: Graphically represent the frequency distribution of the variable.

4. [Diagram D]: Describe the main trends observed in the data.
5. [Diagram E]: How would you categorize the data presented in the chart?

- a. What is the mode of the sample?
- b. What is the median of the sample?
- c. What is the mean of the sample?

6. [Diagram F]: What is the significance of the results as presented in the graph?

7. [Diagram G]: What is the correlation coefficient between the variables?

8. [Diagram H]: If we were to increase the sample size to 2000, what would be the expected distribution of the data?

9. [Diagram I]: What modifications would you suggest to improve the presentation of the data?

10. [Diagram J]: How can the data be further analyzed to gain more insights?