Assignment 1:

Q.1What exactly is the difference between descriptive and inferential statistics?

Answer: **Descriptive Statistics**: it is used to get the summery of dataset.it Focuses on the entire population or dataset, and Provides measures of central tendency and dispersion.

**inferential statistics:** Make inferences and draw conclusions about a population based on sample data, it Focuses on a subset of the population (sample) to draw conclusions about the entire population, and Estimates parameters, tests hypotheses.

Q2. I'm not sure what is the difference between a sample and a population?

Answer: A population is the entire group that you want to draw conclusions about. A sample is the specific group that you will collect data from. The size of the sample is always less than the total size of the population

Q3. What distinguishes descriptive statistics from other types of statistics?

Answe: Descriptive statistics is a term given to the analysis of data that helps to describe, show and summarize data in a meaningful way. It is a simple way to describe our data. Descriptive statistics is very important to present our raw data ineffective/meaningful way using numerical calculations or graphs or tables. This type of statistics is applied to already known data.

4. What is the difference between quantitative and qualitative data?

Answer: Quantitative research is expressed in numbers and graphs. It is used to test or confirm theories and assumptions.

Qualitative research is expressed in words. It is used to understand concepts, thoughts or experiences. This type of research enables you to gather in-depth insights on topics that are not well understood.

5. What is the definition of a percentile?Answer: percentile is a number where a certain percentage of scores fall below that number