Introduction to Statistics

* **What is your name?**  
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* **What is the email you used to register at AIU?**  
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* **What is the email of your Tutor?**  
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* **How would you define statistics?**  
  It is a fact or piece of data obtained from a study of a large quantity of numerical data. Eg. The statistics show that the crime rate has decreased.
* **What is the purpose of statistics?**  
  The purpose of statistics is to teach people to use a limited sample to make intelligent and accurate conclusions about a greater population. Hence the use of tables, graphs and charts play a vital role in presenting the data being used to draw these conclusions.
* **Give two examples where you would use statistics?**  
  Weather forecasting and Health insurance
* **How would knowledge of statistics make you a more valuable employee?**  
  It will help the employee by boosting the morale, reduces cost, maintains a good customer experience and reduces overall costs.
* **What is data?**  
  Data is facts and statistics collected together for reference or analysis
* **What is a sample size?**  
  The sample size references the total number of respondents included in a study and the number is often broken down into sub groups by demographics such as age,gender,and location,so that the total sample achieves represents the entire population.
* **What is a hypothesis test?**  
  A statistical hypothesis test is a method of statistical reference used to determine a possible conclusion from two different and likely conflicting hypothesis. In a statistical hypothesis test, a null and alternative hypothesis is proposed for the probability distribution of the data.