DATA SCIENCE ASSESSMENTS

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1. Which of these is a measure of Variability?
   A, Mean
   B, Mode
   C, Median
   D, Standard Deviation

   Ans:- D) Standard Deviation

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2. A student in his exam, selects option C for all 10 multiple choice questions (MCQ). According to statistics, how many questions out of 10, the student will be right?

   (Format of the exam: 10 MCQ. Each MCQ has 4 answer choices A,B,C,D - out of which 1 choice is right and rest 3 are wrong)

   A, 5

   B, 2.5

   C, 2

   D, 5.5

   Ans:- B) 2.5

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3. Which of the following has the highest resistance to outliers?

   A, Mean

   B, Median

   C, Mode

   D, None of the above

   Ans: B) Median

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4. How is IQR defined?

   A) 4th Quartile – 1st Quartile

   B) 3rd Quartile – 2nd Quartile

   C) 2nd Quartile – 1st Quartile

   D) 3rd Quartile – 1st Quartile

   Ans:D) 3rd Quartile – 1st Quartile

5. Write Python Programming for given Dataset "**mtcars.csv**" file.

    Expected Output: 1. Need to use required libraries

    2. Apply different Data Pre- Processing Techniques using Pandas, NumPy

    3. Store data in list

6. Write Python Programming for given Dataset **"tips.csv" file.**

Expected Output: 1. Need to use required libraries

2. Perform pre-processing techniques

3. Apply visualization modules like Box Plot, Scatter plot and explain your understanding.

7. Write Python Programming for given Dataset **"3Classdata.csv" and 2Classdata.csv"**

Expected Output: 1. Import Necessary libraries

2.Apply Classification Algorithm and calculate performance score

For Q. 5, Q.6, Q.7 Please find attached Jupyter notebook file