**DADS301 Programming in Data Science**

**Assignment Set – 1**

1. (a) What is Data wrangling? Name the package used for Data wrangling in R and describe some of its features.

(b) What are vectors? Explain the creation of vectors with examples. Also, describe how to identify and handle missing values.

2. (a) Describe the steps to initialize a plot in R, specify aesthetics, create a simple plot, and add titles and labels to the plot in R.

(b) Explain the chaining operator with an example.

3. (a) Explain with an example how box plots can be used to understand the relationship between continuous and categorical feature. What are the insights that can be derived from such plots.

(b) What is continuous random variable. How can that be created using R?

**Assignment Set – 2**

4. (a) Describe the need for Python and applications of Python.

(b) Explain with examples – Set, List and Tuples. What are the similarities and differences among them?

5. (a) How are strings converted into iterables? Explain with an example how the iterables thus created can be iterated through.

(b) Explain how simple and complex pattern searches can be performed on lists.

6. (a) What are Stacked Bar charts? When is it used? Explain with an example.

(b) Explain the merging of two data frames with similar name for the 'join' column and dissimilar names for the 'join' column.

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