Data Preprocessing & Feature Engineering Assignment-2

a. Write short description of encoding & its methods.

Ans refer to the process of transforming categorial data into numerical form so that it can be easily analyzed and used in machine learning models.

landas provide several methods for encoding categorial data, including;

- · Label encoding: This method replaces each unique value in a categorial column with a numerical label. The labels are assigned based on the order in which the unique values appear.
- one Hot Encocling: This method creates a new column for each unique value in a categorial column b assigns a binary value (081) to indicate whether that value is present in the original column.
- · Binary Encoding: This method converts each unique value in a categorical column into a binary code & creates new column for each digit in the code.

· Ordinal Encoding: This method assigns a numerical value so each unique value in a categorial column based on a specified order.