🡪 **Action for Question – (a)**

Here I’m performing data cleaning on a given dataset, which contains car’s related data, here my goal is to handle missing values, below screenshot shows the missing values in the dataset.

A screen shot of a computer

Description automatically generated

Also, this dataset contains both numerical and categorical type of data.

Also, by observing the above screenshot only the numerical columns have missing values.

Moreover, ‘New\_Price’ column has more missing values.

To handle this approach first I tried to handle the missing values other than ‘New\_Price’ column, for ‘categorical columns’ I choose to impute with ‘mode’, and for ‘numerical columns’ I choose to impute with ‘median’.

Once this completes, now started working with the ‘New\_Price’ column, for mutation of this ‘New\_Price’ column, I tried grouping multiple relevant columns for estimating more accurate missing prices based on similar cars.

Also, here I include function to adjust the estimated prices based on the cars age.

Most importantly I observed the ‘New\_Price’ values are greater than the ‘Price’ values. So, through this I made the imputation of ‘New\_Price’ more realistic.

After all this, the missing values count for this dataset is as below,

A screen shot of a computer

Description automatically generated

This is the action which I took for this task (Question-a)