**PDS QUESTION (A) JUSTIFICATION**

1. Checked for Missing Values: Used df.isnull().sum() to identify missing values in each column.
2. Imputed Numerical Columns:For normally distributed columns (skewness < 1): replaced missing values with the mean.

For skewed columns (skewness ≥ 1): replaced missing values with the median.

1. Imputed Categorical Columns:

Replaced missing values with the mode (most frequent category).

1. Final Check:

Verified that no missing values remain using df.isnull().sum().

**Justification for Actions: -**

* **Mean/Median**: Preserves statistical properties; median is robust against outliers.
* **Mode**: Maintains the distribution of categorical data.
* **Final Check**: Ensures completeness of the dataset for analysis