SUMMARY OF THE CODE

1.	Load and Inspect Data: Load the dataset from the 'Leads.csv' file and inspect the data using methods like head(), info(), and describe() to understand its structure and characteristics.
2.	Data Preprocessing:
	Replace 'Select' Values: Replace 'Select' values with NaN in categorical columns to treat them as missing values.
	Drop Irrelevant Columns: Remove columns 'City' and 'Country' as they are not relevant to the analysis.
	Drop Columns with High Null Values: Drop columns with more than 3000 null values to focus on more informative features.
4.	Impute Missing Values: Impute missing values in numeric columns with the median and categorical columns with 'Not Specified'. Convert Binary Columns: Convert binary columns like 'Do Not Email', 'Do Not Call', etc., into binary numerical values (0 or 1). Create Dummy Variables: Create dummy variables for categorical columns using
	pd.get_dummies() to convert categorical data into a binary matrix.
6.	Split Data: Split the preprocessed data into features (X) and the target variable (y), which is the 'Converted' column.
7.	Train-Test Split: Further split the data into training and testing sets using the train_test_split function to prepare for model training and evaluation.
8.	Standardize Features: Standardize the feature values using StandardScaler() to bring them to the same scale, which is necessary for logistic regression.
9.	Build Logistic Regression Model:

Fit the model on the training data.

Initialize a LogisticRegression model.

10. Extract Coefficients:

Extract the coefficients of the logistic regression model to understand the impact of each feature on the predicted probability of conversion.

- 11. Identify Top Three Variables:
- 12. Identify the top three categorical variables with the highest absolute coefficients to focus on the most influential features.
- 13. Export to Excel:

Create a DataFrame containing 'Prospect ID', 'Converted', and 'Lead Score' columns.

Populate the DataFrame with respective data.

Export the DataFrame to an Excel file.

14. Summary and Analysis:

Analyze the top three categorical variables based on their coefficients to understand which variables have the most significant impact on lead conversion.

Provide insights on which categorical variables should be focused on to increase the probability of lead conversion.