

EX.5.2

ASSIGNMENT PANDA ON DATASET

You will be provided the dataset and asked to perform the task which has provided during the Live session.

Program

```
# Import necessary libraries

import pandas as pd

# Load the dataset (replace 'your_dataset.csv' with the actual file name)

dataset = pd.read_csv('your_dataset.csv')

# Display the first few rows of the dataset

print("First few rows of the dataset:")

print(dataset.head())

# Basic statistics of the dataset

print("\nBasic statistics of the dataset:")

print(dataset.describe())

# Select a specific column

selected_column = dataset['ColumnName']

print(f"\nSelected column:\n{selected_column}")

# Filter data based on a condition

filtered_data = dataset[dataset['Column1'] > 10]

print(f"\nFiltered data based on a condition:\n{filtered_data}")

# Group by a column and calculate the mean

grouped_data = dataset.groupby('Column2').mean()

print(f"\nGrouped data with mean:\n{grouped_data}")

# Save the results to a new CSV file

dataset.to_csv('output_dataset.csv', index=False)

print("\nResults saved to 'output_dataset.csv'")
```