**2311cs020140**

Assignment 1: Sorting and Ranking Data

Tasks: Sort the dataset by Account\_Balance in descending order and display the first 10 rows. Create a ranking column for Transaction\_Amount within each Branch: Use rank() to give ranks for transactions based on their amounts within each branch.

Objective: Learn how to sort data and apply ranking based on certain columns.

import pandas as pd

# Load the CSV file into a DataFrame

df = pd.read\_csv('banking\_data.csv')

# Assignment 1: Sorting and Ranking Data

# Task 1: Sort the dataset by Account\_Balance in descending order and display the first 10 rows

sorted\_by\_balance = df.sort\_values(by='Account\_Balance', ascending=False)

print("First 10 rows sorted by Account\_Balance (descending):")

print(sorted\_by\_balance.head(10))

# Task 2: Create a ranking column for Transaction\_Amount within each Branch

df['Transaction\_Rank'] = df.groupby('Branch')['Transaction\_Amount'].rank(ascending=False, method='min')

print("\nData with the new Transaction\_Rank column:")

print(df[['Branch', 'Transaction\_Amount', 'Transaction\_Rank']].head()) # Show only relevant columns for clarity