**2311cs020140**

**Assignment 1: Data Visualization**

**Tasks:**

1. Plot the total sum of Transaction\_Amount per Account\_Type using a bar plot.
2. Create a pie chart to show the percentage of transactions per Branch.

**Objective:**

* Understand how to visualize data using Pandas' built-in plotting capabilities (Matplotlib integration).

Program:

import pandas as pd

import matplotlib.pyplot as plt

# Load the CSV file into a DataFrame

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

# Task 1: Plot the total sum of Transaction\_Amount per Account\_Type using a bar plot

total\_transaction\_per\_account\_type = df.groupby('Account\_Type')['Transaction\_Amount'].sum()

# Plotting the bar plot

total\_transaction\_per\_account\_type.plot(kind='bar', color='skyblue', figsize=(8, 6))

plt.title('Total Transaction Amount per Account Type')

plt.xlabel('Account Type')

plt.ylabel('Total Transaction Amount')

plt.xticks(rotation=45)

plt.tight\_layout()

plt.show()

# Task 2: Create a pie chart to show the percentage of transactions per Branch

transaction\_per\_branch = df['Branch'].value\_counts()

# Plotting the pie chart

transaction\_per\_branch.plot(kind='pie', autopct='%1.1f%%', figsize=(7, 7), colors=['lightcoral', 'lightskyblue', 'lightgreen', 'orange', 'lightyellow'])

plt.title('Percentage of Transactions per Branch')

plt.ylabel('') # Hide the ylabel to make the pie chart look cleaner

plt.tight\_layout()

plt.show()