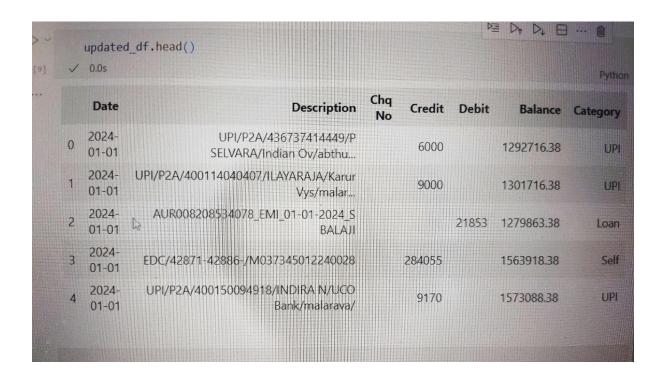
Categorize and Visualize Financial Transactions from Excel File

```
import pandas as pd
import matplotlib.pyplot as plt
# First step i loaded the excel file
file path = r'C:\Users\Gowtham\Desktop\credit card transcation\Book1.xlsx' #
Using raw string
df = pd.read_excel(file_path)
# Defining a function to categorize transactions based on the description
def categorize_transaction(description):
    description = str(description).lower()
    if "upi" in description:
        return "UPI"
    elif "imps" in description:
        return "IMPS"
    elif "emi" in description or "loan" in description:
        return "Loan"
    else:
        return "Self"
# Creating a new column 'Category'
df['Category'] = df['Description'].apply(categorize_transaction)
# Save the updated dataframe to a new Excel file
output file path =
r'C:\Users\Gowtham\Desktop\credit_card_transcation\Updated_Book1.xlsx' #
Using raw string
df.to_excel(output_file_path, index=False)
# I used Visualization for better understanding
category_counts = df['Category'].value_counts()
plt.figure(figsize=(10, 6))
category counts.plot(kind='bar', color=['skyblue', 'lightgreen', 'lightcoral',
'lightgray'])
plt.title('Distribution of Transaction Categories')
plt.xlabel('Category')
plt.ylabel('Number of Transactions')
plt.xticks(rotation=0)
plt.show()
```

Output

To see the updated Excel file I use these code

```
updated_df =
pd.read_excel(r'C:\Users\Gowtham\Desktop\credit_card_transcation\Updated_Book1
.xlsx')
updated_df.head()
```



Visualization of Category

