Project: Bill Splitter for Groups

# 📘 Project Description

This Python project is a simple console-based application that helps users split a bill among a group of people. It is especially useful in group outings or shared accommodations. The user is prompted to enter the total bill amount and the number of people. The program then calculates and displays the amount each person should pay. It also handles errors such as dividing by zero or invalid input.

# 🎯 Project Goals

- Accept user input for the total bill and number of people.  
- Validate inputs and handle common errors.  
- Calculate the per-person share.  
- Display results with proper formatting.

# 🧾 Source Code (Python)

def split\_bill():  
 try:  
 # Get total bill amount  
 total\_bill = float(input("Enter the total bill amount: ₹"))  
   
 # Get number of people  
 num\_people = int(input("Enter the number of people: "))  
  
 # Check for valid number of people  
 if num\_people <= 0:  
 print("Number of people must be greater than zero.")  
 return  
  
 # Calculate individual share  
 share = total\_bill / num\_people  
  
 # Display rounded result  
 print(f"Each person should pay: ₹{share:.2f}")  
  
 except ValueError:  
 print("Invalid input! Please enter numeric values.")  
  
# Run the function  
split\_bill()

# 📤 Sample Output

Enter the total bill amount: ₹1500  
Enter the number of people: 3  
Each person should pay: ₹500.00

Error Handling Example:

Enter the total bill amount: ₹1000  
Enter the number of people: 0  
Number of people must be greater than zero.

Enter the total bill amount: abc  
Invalid input! Please enter numeric values.

# 🌟 Optional Enhancements (Bonus Features)

- Ask for each person’s name and show individual shares.  
- Include a tip percentage and divide the total accordingly.  
- Allow uneven split by letting users enter how much each person paid.