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In [1]: class BudgetTracker:
def __init__(self):
self.balance = 0
self.transactions = []

def add_income(self, amount, description):
self.balance += amount
self.transactions.append(f"Income: +Rs{amount} ({description})")

def add_expense(self, amount, description):
if amount > self.balance:
print("Insufficient funds for this expense!")
return
self.balance -= amount
self.transactions.append(f"Expense: -Rs{amount} ({description})")

def view_balance(self):
print(f"Current Balance: Rs{self.balance}")

def view_transactions(self):
print("\nTransaction History:")
for transaction in self.transactions:
print(transaction)

def main():
budget_tracker = BudgetTracker()

while True:
print("\nBudget Tracker Menu:")
print("1. Add Income")
print("2. Add Expense")
print("3. View Balance")
print("4. View Transaction History")
print("5. Exit")

choice = input("Enter your choice (1/2/3/4/5): ")

if choice == "1":
amount = float(input("Enter the income amount:Rs"))
description = input("Enter a description: ")
budget_tracker.add_income(amount, description)
elif choice == "2":
amount = float(input("Enter the expense amount:Rs"))
description = input("Enter a description: ")
budget_tracker.add_expense(amount, description)
elif choice == "3":
budget_tracker.view_balance()
elif choice == "4":
budget_tracker.view_transactions()
elif choice == "5":
print("Exiting Budget Tracker. Have a nice day!")
break
else:
print("Invalid choice. Please select a valid option.")

if __name__ == "__main__":
main()

Budget Tracker Menu:
1. Add Income
2. Add Expense
3. View Balance
4. View Transaction History
5. Exit
Enter your choice (1/2/3/4/5): 1
Enter the income amount:Rs50000
Enter a description: Total Monthly Income

Budget Tracker Menu:
1. Add Income
2. Add Expense
3. View Balance
4. View Transaction History
5. Exit
Enter your choice (1/2/3/4/5): 2
Enter the expense amount:Rs299
Enter a description: Mobile Recharge

Budget Tracker Menu:
1. Add Income
2. Add Expense
3. View Balance
4. View Transaction History
5. Exit
Enter your choice (1/2/3/4/5): 2
Enter the expense amount:Rs2000
Enter a description: Electricity

Budget Tracker Menu:
1. Add Income
2. Add Expense
3. View Balance
4. View Transaction History
5. Exit
Enter your choice (1/2/3/4/5): 2
Enter the expense amount:Rs900
Enter a description: Gas cylinder

Budget Tracker Menu:
1. Add Income
2. Add Expense
3. View Balance
4. View Transaction History
5. Exit
Enter your choice (1/2/3/4/5): 2
Enter the expense amount:Rs300
Enter a description: Cabel

Budget Tracker Menu:
1. Add Income
2. Add Expense
3. View Balance
4. View Transaction History
5. Exit
Enter your choice (1/2/3/4/5): 1000
Invalid choice. Please select a valid option.

Budget Tracker Menu:
1. Add Income
2. Add Expense
3. View Balance
4. View Transaction History
5. Exit
Enter your choice (1/2/3/4/5): Water
Invalid choice. Please select a valid option.

Budget Tracker Menu:
1. Add Income
2. Add Expense
3. View Balance
4. View Transaction History
5. Exit
Enter your choice (1/2/3/4/5): 2
Enter the expense amount:Rs2000
Enter a description: Maintenance or repairs

Budget Tracker Menu:
1. Add Income
2. Add Expense
3. View Balance
4. View Transaction History
5. Exit
Enter your choice (1/2/3/4/5): 3
Current Balance: Rs44501.0

Budget Tracker Menu:
1. Add Income
2. Add Expense
3. View Balance
4. View Transaction History
5. Exit
Enter your choice (1/2/3/4/5): 4

Transaction History:
Income: +Rs50000.0 (Total Monthly Income)
Expense: -Rs299.0 (Mobile Recharge)
Expense: -Rs2000.0 (Electricity)
Expense: -Rs900.0 (Gas cylinder)
Expense: -Rs300.0 (Cabel)
Expense: -Rs2000.0 (Maintenance or repairs)

Budget Tracker Menu:
1. Add Income
2. Add Expense
3. View Balance
4. View Transaction History
5. Exit
Enter your choice (1/2/3/4/5): 2
Enter the expense amount:Rs12000
Enter a description: Grocery

Budget Tracker Menu:
1. Add Income
2. Add Expense
3. View Balance
4. View Transaction History
5. Exit
Enter your choice (1/2/3/4/5): 4

Transaction History:
Income: +Rs50000.0 (Total Monthly Income)
Expense: -Rs299.0 (Mobile Recharge)
Expense: -Rs2000.0 (Electricity)
Expense: -Rs900.0 (Gas cylinder)
Expense: -Rs300.0 (Cabel)
Expense: -Rs2000.0 (Maintenance or repairs)
Expense: -Rs12000.0 (Grocery)

Budget Tracker Menu:
1. Add Income
2. Add Expense
3. View Balance
4. View Transaction History
5. Exit
Enter your choice (1/2/3/4/5): 3
Current Balance: Rs32501.0

Budget Tracker Menu:
1. Add Income
2. Add Expense
3. View Balance
4. View Transaction History
5. Exit
Enter your choice (1/2/3/4/5): 5
Exiting Budget Tracker. Have a nice day!
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In [ ]: