

PET – Personal Expense Tracker

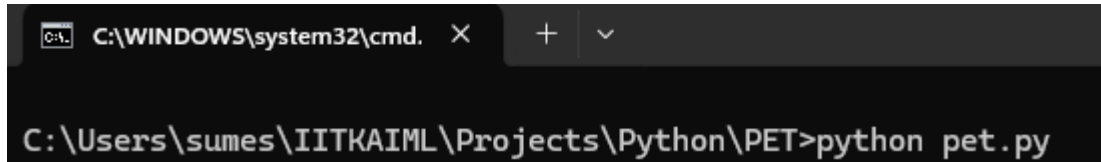
DEMO WITH SCREEN SHOTS

SUMESH GOPALAKRISHNAN

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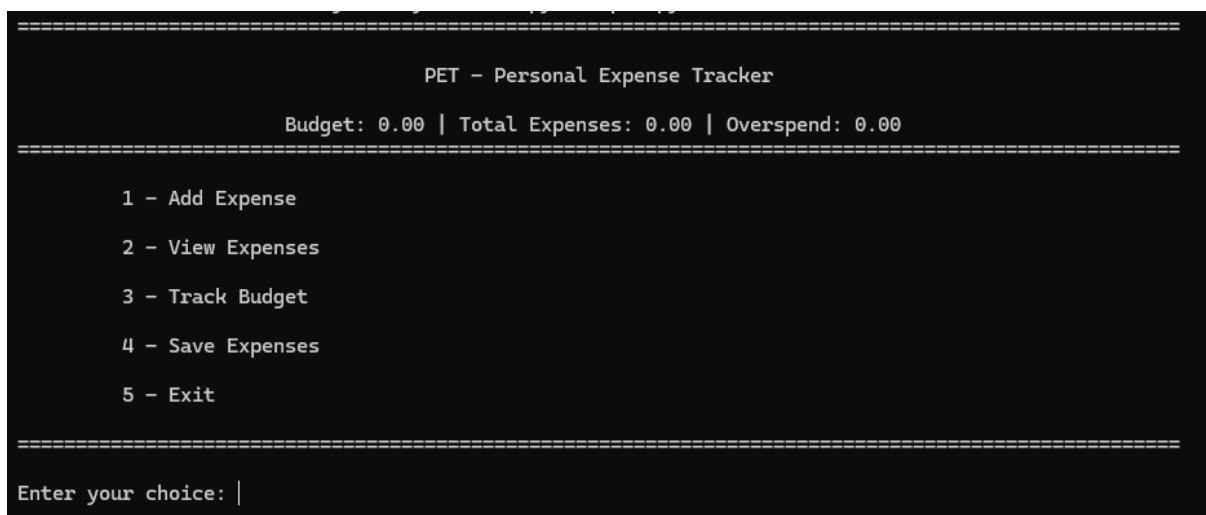
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Launch the program



```
C:\WINDOWS\system32\cmd. X + v  
C:\Users\sumes\IITKAIML\Projects\Python\PET>python pet.py
```

- The menu launched
- Loads Budget data from a file. As the file is not present, defaults budget as 0.00
- Loads Expenses data from a file. As the file is not present, defaults expenses as 0.00
- If the total expenses is below budget, prints as “Remaining” else prints as “overspend”



```
=====
                        PET - Personal Expense Tracker
                        Budget: 0.00 | Total Expenses: 0.00 | Overspend: 0.00
=====
1 - Add Expense
2 - View Expenses
3 - Track Budget
4 - Save Expenses
5 - Exit
=====
Enter your choice: |
```

Add Expense:

- Validates all input values given for expense
- Adds expense when valid values are given
- Checks against budget and informs if you have overspent.
- As the budget is still not set, it consider any expense as overspent.

```
Enter your choice: 1
=====

                        PET - Add Expense
=====

Enter date (YYYY-MM-DD): abcd
Invalid date format. Please try again.
Enter date (YYYY-MM-DD): 2025-15-20
Invalid date format. Please try again.
Enter date (YYYY-MM-DD): 12-05-2025
Invalid date format. Please try again.
Enter date (YYYY-MM-DD): 05-12-2025
Invalid date format. Please try again.
Enter date (YYYY-MM-DD): 2025-03-01
Enter category (e.g., Food, Travel - max 25 characters) :
Category cannot be empty. Please try again.
Enter category (e.g., Food, Travel - max 25 characters) : Food
Enter amount: xyz
Invalid amount. Please try again.
Enter amount: 125.01.12
Invalid amount. Please try again.
Enter amount: 1,253.12
Invalid amount. Please try again.
Enter amount: 1200.15
Enter description:
Description cannot be empty. Please try again.
Enter description: Burger from KFC

Expense added successfully. {'Date': '2025-03-01', 'Category': 'Food', 'Amount': '1200.15', 'Description': 'Burger from KFC'}

You have overspent your budget by 1200.15
Press Enter to continue.....|
```

```
Enter your choice: 1
=====

                        PET - Add Expense
=====

Enter date (YYYY-MM-DD): 2025-02-28
Enter category (e.g., Food, Travel - max 25 characters) : Travel
Enter amount: 3000.00
Enter description: Filled petrol in the car

Expense added successfully. {'Date': '2025-02-28', 'Category': 'Travel', 'Amount': '3000.00', 'Description': 'Filled petrol in the car'}

You have overspent your budget by 4200.15
Press Enter to continue.....|
```

```
Enter your choice: 1
=====

                        PET - Add Expense
=====

Enter date (YYYY-MM-DD): 2025-02-01
Enter category (e.g., Food, Travel - max 25 characters) : Maintenance
Enter amount: 5000.00
Enter description: Monthly Association maintenance charge

Expense added successfully. {'Date': '2025-02-01', 'Category': 'Maintenance', 'Amount': '5000.00', 'Description': 'Monthly Association maintenance charge'}

You have overspent your budget by 9200.15
Press Enter to continue.....|
```

```
Enter your choice: 1
=====

                        PET - Add Expense
=====

Enter date (YYYY-MM-DD): 2025-02-01
Enter category (e.g., Food, Travel - max 25 characters) : Utility bills
Enter amount: 2000.00
Enter description: Broadband charges

Expense added successfully. {'Date': '2025-02-01', 'Category': 'Utility bills', 'Amount': '2000.00', 'Description': 'Broadband charges'}

You have overspent your budget by 11200.15
Press Enter to continue.....|
```

```
Enter your choice: 1
=====

                        PET - Add Expense
=====

Enter date (YYYY-MM-DD): 2025-02-01
Enter category (e.g., Food, Travel - max 25 characters) : Utility bills
Enter amount: 9000.00
Enter description: Electricity bill

Expense added successfully. {'Date': '2025-02-01', 'Category': 'Utility bills', 'Amount': '9000.00', 'Description': 'Electricity bill'}

You have overspent your budget by 20200.15
Press Enter to continue.....|
```

```
Enter your choice: 1
=====

                        PET - Add Expense
=====

Enter date (YYYY-MM-DD): 2025-02-05
Enter category (e.g., Food, Travel - max 25 characters) : Groceries
Enter amount: 4500.00
Enter description: All groceries for the month

Expense added successfully. {'Date': '2025-02-05', 'Category': 'Groceries', 'Amount': '4500.00', 'Description': 'All groceries for the month'}

You have overspent your budget by 24700.15
Press Enter to continue.....|
```

```
Enter your choice: 1
=====

                        PET - Add Expense
=====

Enter date (YYYY-MM-DD): 2025-02-07
Enter category (e.g., Food, Travel - max 25 characters) : Vegetables
Enter amount: 1250
Enter description: Vegetables for a week

Expense added successfully. {'Date': '2025-02-07', 'Category': 'Vegetables', 'Amount': '1250', 'Description': 'Vegetables for a week'}

You have overspent your budget by 25950.15
Press Enter to continue.....|
```

View the list of existing expenses

```
=====
                                PET - Personal Expense Tracker
                                Budget: 0.00 | Total Expenses: 25950.15 | Overspend: 25950.15
=====

    1 - Add Expense
    2 - View Expenses
    3 - Track Budget
    4 - Save Expenses
    5 - Exit

=====

Enter your choice: 2
=====

DATE      ,CATEGORY      ,AMOUNT      ,DESCRIPTION
=====
2025-03-01,Food            ,1200.15      ,Burger from KFC
2025-02-28,Travel          ,3000.00      ,Filled petrol in the car
2025-02-01,Maintenance     ,5000.00      ,Monthly Association maintenance charge
2025-02-01,Utility bills   ,2000.00      ,Broadband charges
2025-02-01,Utility bills   ,9000.00      ,Electricity bill
2025-02-05,Groceries     ,4500.00      ,All groceries for the month
2025-02-07,Vegetables ,1250         ,Vegetables for a week
=====

Total Expenses: 7 items
=====

Press Enter to continue.....|
```

Track Budget

- Shows what the current budget is. As no budget is set so far, it shows as 0
- Accepts new budget amount – Provide an amount less than the total expenses
- Validate the budget input is a valid amount
- Updates new Budget
- Displays the new budget
- As the budget is less than the total expenses, it states that you have exceeded your budget
- Saves the budget to a file

```
=====
                                PET - Personal Expense Tracker
                                Budget: 0.00 | Total Expenses: 25950.15 | Overspend: 25950.15
=====

    1 - Add Expense
    2 - View Expenses
    3 - Track Budget
    4 - Save Expenses
    5 - Exit

=====

Enter your choice: 3

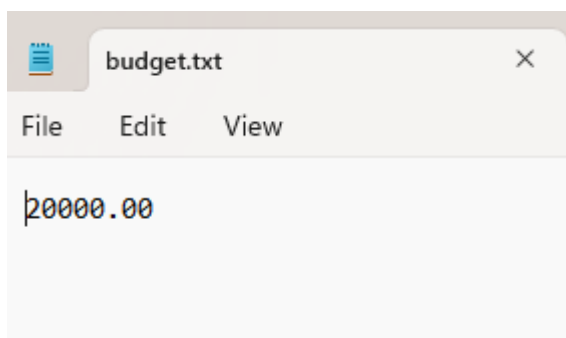
Current budget amount is : 0.00
Enter new budget: mno

Invalid Budget amount. Please try again
Enter new budget: 20000

New budget is : 20000.00

You have exceeded your budget by 5950.15
Press Enter to continue.....|
```

- Text file to which budget is stored



- Set the Budget again such that the budget is more than the expenses
- It shows the amount left in your budget still for expense

```
=====
                        PET - Personal Expense Tracker
                        Budget: 20000.00 | Total Expenses: 25950.15 | Overspend: 5950.15
=====

1 - Add Expense
2 - View Expenses
3 - Track Budget
4 - Save Expenses
5 - Exit

=====

Enter your choice: 3

Current budget amount is : 20000.00
Enter new budget: 30000

New budget is : 30000.00

You have 4049.85 left in your budget
Press Enter to continue.....|
```

- The title also shows Remaining amount instead of overspend now

```
=====
                        PET - Personal Expense Tracker
                        Budget: 30000.00 | Total Expenses: 25950.15 | Remaining: 4049.85
=====

1 - Add Expense
2 - View Expenses
3 - Track Budget
4 - Save Expenses
5 - Exit

=====

Enter your choice: |
```

- Since the budget is now more than expense, when you add expense, it does not state you have overspent

```
Enter your choice: 1
=====
                        PET - Add Expense
=====

Enter date (YYYY-MM-DD): 2025-02-15
Enter category (e.g., Food, Travel - max 25 characters) : Investment
Enter amount: 1000.00
Enter description: Mutual Funds

Expense added successfully. {'Date': '2025-02-15', 'Category': 'Investment', 'Amount': '1000.00', 'Description': 'Mutual Funds'}
Press Enter to continue.....
=====
```


Save Expenses

- Saves the expense to a text file as csv
- Gives a message that expenses are saved.

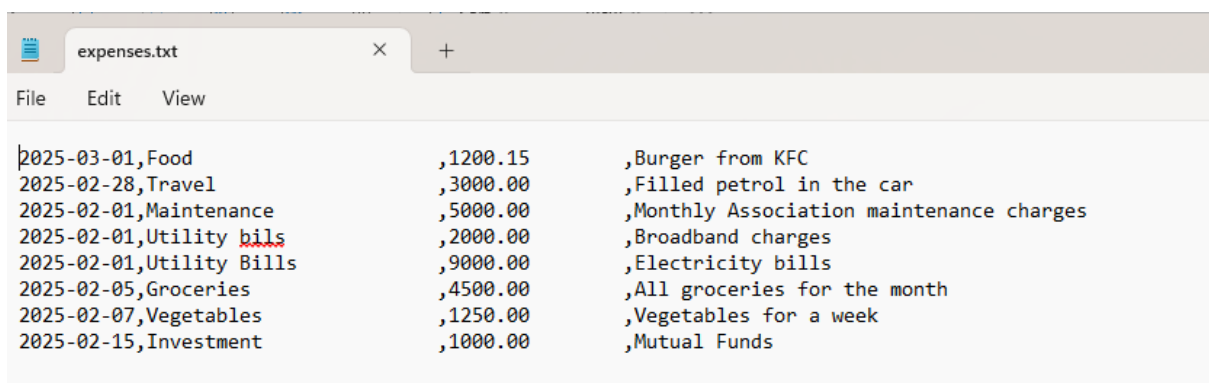
```
=====
                                PET - Personal Expense Tracker
                                Budget: 30000.00 | Total Expenses: 26950.15 | Remaining: 3049.85
                                =====

                                1 - Add Expense
                                2 - View Expenses
                                3 - Track Budget
                                4 - Save Expenses
                                5 - Exit

                                =====

Enter your choice: 4
Expenses saved.
Press Enter to continue.....|
```

- The text file content will be as below



```
expenses.txt
File Edit View

2025-03-01,Food,1200.15,Burger from KFC
2025-02-28,Travel,3000.00,Filled petrol in the car
2025-02-01,Maintenance,5000.00,Monthly Association maintenance charges
2025-02-01,Utility bills,2000.00,Broadband charges
2025-02-01,Utility Bills,9000.00,Electricity bills
2025-02-05,Groceries,4500.00,All groceries for the month
2025-02-07,Vegetables,1250.00,Vegetables for a week
2025-02-15,Investment,1000.00,Mutual Funds
```

Exit

- Prints a thank you message
- Exits the application

```
=====
                        PET - Personal Expense Tracker
                        Budget: 30000.00 | Total Expenses: 26950.15 | Remaining: 3049.85
=====

    1 - Add Expense
    2 - View Expenses
    3 - Track Budget
    4 - Save Expenses
    5 - Exit

=====

Enter your choice: 5
Thank you for using PET!!!

C:\Users\sumes\IITKAIML\Projects\Python\PET>
```