

smart expense manager.py > ...

```
1  import csv
2  import datetime
3
4  FILE_NAME = "expenses.csv"
5
6  # -----
7  # Function to add an expense
8  # -----
9  def add_expense():
10     date = input("Enter date (YYYY-MM-DD) or press enter for today: ")
11     if date == "":
12         date = datetime.date.today().isoformat()
13     category = input("Enter category (Food, Travel, Shopping, Bills etc.): ")
14     amount = float(input("Enter amount spent: "))
15
16     with open(FILE_NAME, "a", newline="") as file:
17         writer = csv.writer(file)
18         writer.writerow([date, category, amount])
19
20     print("Expense added successfully!\n")
21
22
23  # -----
24  # Function to view all expenses
25  # -----
26  def view_expenses():
27     try:
28         with open(FILE_NAME, "r") as file:
29             reader = csv.reader(file)
30             print("\n--- ALL EXPENSES ---")
31             for row in reader:
32                 print(f>Date: {row[0]}, Category: {row[1]}, Amount: ₹{row[2]}")
33             print()
34     except FileNotFoundError:
35         print("No expenses found! Add some first.\n")
36
```

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```
26 def view_expenses():
34     except FileNotFoundError:
35         print("No expenses found! Add some first.\n")
36
37
38 # -----
39 # Function to show total expenses
40 # -----
41 def total_expenses():
42     try:
43         total = 0
44         with open(FILE_NAME, "r") as file:
45             reader = csv.reader(file)
46             for row in reader:
47                 total += float(row[2])
48             print(f"\nTotal Expenses: ₹{total}\n")
49     except FileNotFoundError:
50         print("No expenses found!\n")
51
52
53 # -----
54 # Function to show monthly expense summary
55 # -----
56 def monthly_summary():
57     try:
58         month = input("Enter month (MM): ")
59         year = input("Enter year (YYYY): ")
60
61         total = 0
62         print(f"\n--- Summary for {month}/{year} ---")
63         with open(FILE_NAME, "r") as file:
64             reader = csv.reader(file)
65             for row in reader:
66                 date = row[0]
67                 if date.startswith(f"{year}-{month}"):
68                     total += float(row[2])
69                     print(f>Date: {row[0]} Category: {row[1]} Amount: ₹{row[2]}\n")
```

Welcome

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import json Untitled-1 •

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```
56 def monthly_summary():
57     for row in reader:
58         date = row[0]
59         if date.startswith(f"{year}-{month}"):
60             total += float(row[2])
61             print(f>Date: {row[0]}, Category: {row[1]}, Amount: ₹{row[2]}")
62     print(f"\nTotal for {month}/{year}: ₹{total}\n")
63
64 except FileNotFoundError:
65     print("No expenses found!\n")
66
67 # -----
68 # Function to view category-wise spending
69 # -----
70 def category_summary():
71     try:
72         category = input("Enter category to check: ")
73         total = 0
74         print(f"\n--- Category Summary: {category} ---")
75
76         with open(FILE_NAME, "r") as file:
77             reader = csv.reader(file)
78             for row in reader:
79                 if row[1].lower() == category.lower():
80                     print(f>Date: {row[0]}, Amount: ₹{row[2]}")
81                     total += float(row[2])
82             print(f"\nTotal spent on {category}: ₹{total}\n")
83
84     except FileNotFoundError:
85         print("No expenses found!\n")
86
87 # -----
```


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```
97 # -----
98 # Main Program Menu
99 # -----
100 while True:
101     print("==== SMART EXPENSE MANAGER =====")
102     print("1. Add Expense")
103     print("2. View All Expenses")
104     print("3. View Total Expenses")
105     print("4. Monthly Summary")
106     print("5. Category-wise Summary")
107     print("6. Exit")
108
109     choice = input("Enter your choice: ")
110
111     if choice == "1":
112         add_expense()
113     elif choice == "2":
114         view_expenses()
115     elif choice == "3":
116         total_expenses()
117     elif choice == "4":
118         monthly_summary()
119     elif choice == "5":
120         category_summary()
121     elif choice == "6":
122         print("Thank you for using Smart Expense Manager!")
123         break
124     else:
125         print("Invalid choice! Try again.\n")
```