**CODE FOR EXPENSE TRACKER**

**import csv**

**# Function to add an expense to the expense tracker**

**def add\_expense(expenses, date, description, amount):**

**expenses.append([date, description, amount])**

**# Function to view all expenses**

**def view\_expenses(expenses):**

**if not expenses:**

**print("No expenses to display.")**

**else:**

**print("Date\tDescription\tAmount")**

**for expense in expenses:**

**print(f"{expense[0]}\t{expense[1]}\t₹{expense[2]:.2f}")**

**# Function to calculate the total expenses**

**def calculate\_total(expenses):**

**total = sum(expense[2] for expense in expenses)**

**return total**

**# Function to save expenses to a CSV file**

**def save\_expenses\_to\_file(expenses, filename):**

**with open(filename, mode='w', newline='') as file:**

**writer = csv.writer(file)**

**writer.writerows(expenses)**

**# Function to load expenses from a CSV file**

**def load\_expenses\_from\_file(filename):**

**expenses = []**

**try:**

**with open(filename, mode='r') as file:**

**reader = csv.reader(file)**

**for row in reader:**

**date, description, amount = row**

**expenses.append([date, description, float(amount)])**

**except FileNotFoundError:**

**pass**

**return expenses**

**# Main function**

**def main():**

**expenses = load\_expenses\_from\_file("expenses.csv")**

**while True:**

**print("\nExpense Tracker Menu:")**

**print("1. Add an Expense")**

**print("2. View Expenses")**

**print("3. Calculate Total Expenses")**

**print("4. Save Expenses to File")**

**print("5. Exit")**

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

**if choice == "1":**

**date = input("Enter the date (YYYY-MM-DD): ")**

**description = input("Enter a description: ")**

**amount = float(input("Enter the amount: "))**

**add\_expense(expenses, date, description, amount)**

**print("Expense added successfully.")**

**elif choice == "2":**

**view\_expenses(expenses)**

**elif choice == "3":**

**total = calculate\_total(expenses)**

**print(f"Total expenses: ₹{total:.2f}")**

**elif choice == "4":**

**save\_expenses\_to\_file(expenses, "expenses.csv")**

**print("Expenses saved to 'expenses.csv'.")**

**elif choice == "5":**

**break**

**else:**

**print("Invalid choice. Please try again.")**

**if \_\_name\_\_ == "\_\_main\_\_":**

**main()**

**OUTPUT:**

**Expense Tracker Menu:**

**1. Add an Expense**

**2. View Expenses**

**3. Calculate Total Expenses**

**4. Save Expenses to File**

**5. Exit**

**Enter your choice (1/2/3/4/5): 1**

**Enter the date (YYYY-MM-DD): 2023-11-23**

**Enter a description: shopping**

**Enter the amount: 5000**

**Expense added successfully.**

**Expense Tracker Menu:**

**1. Add an Expense**

**2. View Expenses**

**3. Calculate Total Expenses**

**4. Save Expenses to File**

**5. Exit**

**Enter your choice (1/2/3/4/5): 1**

**Enter the date (YYYY-MM-DD): 2023-11-24**

**Enter a description: dinner**

**Enter the amount: 5000**

**Expense added successfully.**

**Expense Tracker Menu:**

**1. Add an Expense**

**2. View Expenses**

**3. Calculate Total Expenses**

**4. Save Expenses to File**

**5. Exit**

**Enter your choice (1/2/3/4/5): 3**

**Total expenses: ₹10000.00**

**Expense Tracker Menu:**

**1. Add an Expense**

**2. View Expenses**

**3. Calculate Total Expenses**

**4. Save Expenses to File**

**5. Exit**

**Enter your choice (1/2/3/4/5): 1**

**Enter the date (YYYY-MM-DD): 2023-11-28**

**Enter a description: fruits**

**Enter the amount: 200**

**Expense added successfully.**

**Expense Tracker Menu:**

**1. Add an Expense**

**2. View Expenses**

**3. Calculate Total Expenses**

**4. Save Expenses to File**

**5. Exit**

**Enter your choice (1/2/3/4/5): 3**

**Total expenses: ₹10200.00**

**Expense Tracker Menu:**

**1. Add an Expense**

**2. View Expenses**

**3. Calculate Total Expenses**

**4. Save Expenses to File**

**5. Exit**

**Enter your choice (1/2/3/4/5): 2**

**Date** **Description** **Amount**

**2023-11-23** **shopping** **₹5000.00**

**2023-11-24** **dinner** **₹5000.00**

**2023-11-28** **fruits** **₹200.00**

**Expense Tracker Menu:**

**1. Add an Expense**

**2. View Expenses**

**3. Calculate Total Expenses**

**4. Save Expenses to File**

**5. Exit**

**Enter your choice (1/2/3/4/5):**