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In [1]: #Description: A simple expense tracker
In [2]: #Import the libraries
         import numpy as np
        import pandas as pd
         from datetime import datetime
In [3]: #Create Empty lists
        GOOD OR SERVICES=[]
        PRICES=[]
        DATES=[]
        EXPENSE TYPES=[]
        #Create a function to add the expenses to the lists and organize the data
         def add expenses(good or sevices, price, dates, expense type):
             GOOD_OR_SERVICES.append(good_or_services)
             PRICES.append(price)
             DATES.append(dates)
             EXPENSE TYPES.append(expense type)
In [6]: #Main program
        option=-1 #This will be the user option or choice or input
         while(option != 0):
             #create the option menu
             print('Welcome to the simple Expense tracker:')
print('1. Add Food Expense')
             print('2. Add Household Expense')
             print('3. Add Transportation Expense')
print('4. Show and Save The Expense Report')
             print('0. Exit')
             option=int(input('Choose an option:\n'))
             #print a new line
             print()
             #check for the users choice or option or input
             if option == 0:
                 print('Exiting the program')
                 break
             elif option == 1:
                 print('Adding food')
                 expense_type='F00D'
             elif option ==2:
                 print('Adding Household')
                 expense_type='HOUSEHOLD'
             elif option ==3:
                 print('Adding Transportation')
                 expense_type='TRANSPORTATION'
             elif option ==4:
                 #CReate a dataframe and add the expenses
                 expense_report=pd.DataFrame()
                 expense_report['GOOD_OR_SERVICES']=GOOD_OR_SERVICES
                 expense report['PRICES']=PRICES
                 expense_report['DATES']=DATES
expense_report['EXPENSE_TYPES']=EXPENSE_TYPES
                 #Save the expense report
                 expense_report.to_csv('expenses.csv')
                 print(expense_report)
                 print('You chose an incorrect option.Please choose 0,1,2,3,4')
             #Allow user to write good or services and price
             if option == 1 or option == 2 or option == 3:
                 good_or_services=input('Enter the good or service for the expense type.'+expense_type+':\n')
                 price=float(input('Enter the price of the good or service:\n'))
                 today_date=datetime.today()
                 add expenses(good or services, price, today date, expense type)
             #print a new line
             print()
```

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Welcome to the simple Expense tracker:
        1. Add Food Expense
        2. Add Household Expense
        3. Add Transportation Expense
        4. Show and Save The Expense Report
        0. Exit
        Choose an option:
        Adding food
        Enter the good or service for the expense type.FOOD:
        Apple
        Enter the price of the good or service:
        Welcome to the simple Expense tracker:
        1. Add Food Expense
        2. Add Household Expense
        3. Add Transportation Expense
        4. Show and Save The Expense Report
        0. Exit
        Choose an option:
        Adding Household
        Enter the good or service for the expense type.HOUSEHOLD:
        Enter the price of the good or service:
        10000
        Welcome to the simple Expense tracker:
        1. Add Food Expense
        2. Add Household Expense
        3. Add Transportation Expense
        4. Show and Save The Expense Report
        0. Exit
        Choose an option:
        Adding Transportation
        Enter the good or service for the expense type.TRANSPORTATION:
        Enter the price of the good or service:
        1200
        Welcome to the simple Expense tracker:
        1. Add Food Expense
        2. Add Household Expense
        3. Add Transportation Expense
        4. Show and Save The Expense Report
        0. Exit
        Choose an option:
          GOOD OR SERVICES
                             PRICES
                                                          DATES
                                                                  EXPENSE TYPES
                              140.0 2023-12-03 07:21:22.749020
                                                                           F00D
                     Apple
                            10000.0 2023-12-03 07:22:08.713725
                                                                      HOUSEHOLD
        1
                      Rent
                             1200.0 2023-12-03 07:22:28.443714
                                                                 TRANSPORTATION
        2
                       Gas
                     Apple
        3
                              140.0 2023-12-03 07:23:20.522684
                                                                           F00D
                            10000.0 2023-12-03 07:23:27.955639
                                                                      HOUSEHOLD
                      Rent
                       Gas
                             1200.0 2023-12-03 07:23:38.674913 TRANSPORTATION
        Welcome to the simple Expense tracker:
        1. Add Food Expense
        2. Add Household Expense
        3. Add Transportation Expense
        4. Show and Save The Expense Report
        0. Fxit
        Choose an option:
        Exiting the program
In [ ]:
In [ ]:
In [ ]:
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