***Python code:***

*def get\_personal\_info():*

*print("\nPersonal Information Form:")*

*name = input("Enter your name: ")*

*age = input("Enter your age group (e.g., 15-20, 21-30, etc.): ")*

*income = float(input("Enter your monthly income ($): "))*

*# Validate the input*

*if name.strip() == "":*

*print("Error: Please enter your name.")*

*return None, None, None*

*try:*

*if income <= 0:*

*print("Error: Income must be a positive number.")*

*return None, None, None*

*except ValueError:*

*print("Error: Invalid income value. Please enter a number.")*

*return None, None, None*

*return name, age, income*

*def ask\_questions():*

*answers = [] # for all things*

*Q1 = [] # food*

*Q2 = [] # entertainment*

*Q3 = [] # clothes*

*Q4 = [] # health*

*Q5 = [] # edication*

*Q6 = [] # online shopping*

*Q7 = [] # Rent*

*Q8 = [] # Electricity*

*Q9 = [] # transportation*

*# Ask a question*

*answer1 = int(input(f"1. Food: "))*

*answers.append(answer1) # Add the answer to the list*

*Q1.append(answer1)*

*answer2 = int(input(f"2. Entertainment: "))*

*answers.append(answer2) # Add the answer to the list*

*Q2.append(answer2)*

*answer3 = int(input(f"3. Clothes: "))*

*answers.append(answer3) # Add the answer to the list*

*Q3.append(answer3)*

*answer4 = int(input(f"4. Health: "))*

*answers.append(answer4) # Add the answer to the list*

*Q4.append(answer4)*

*answer5 = int(input(f"5. Education: "))*

*answers.append(answer5) # Add the answer to the list*

*Q5.append(answer5)*

*answer6 = int(input(f"6. Online Shopping: "))*

*answers.append(answer6) # Add the answer to the list*

*Q6.append(answer6)*

*answer7 = int(input(f"7. Rent: "))*

*answers.append(answer7) # Add the answer to the list*

*Q7.append(answer7)*

*answer8 = int(input(f"8. Electricity: "))*

*answers.append(answer8) # Add the answer to the list*

*Q8.append(answer8)*

*answer9 = int(input(f"9. Transportation: "))*

*answers.append(answer9) # Add the answer to the list*

*Q9.append(answer9)*

*# Calculate the total for all categories*

*total = sum(answers)*

*print("Total expenses for all categories:", total)*

*# Calculate the total for each category*

*total\_food = sum(Q1)*

*total\_entertainment = sum(Q2)*

*total\_clothes = sum(Q3)*

*total\_health = sum(Q4)*

*total\_education = sum(Q5)*

*total\_onlineshopping = sum(Q6)*

*total\_rent = sum(Q7)*

*total\_electricity = sum(Q8)*

*total\_transportation = sum(Q9)*

*return answers, total , total\_food, total\_entertainment, total\_clothes, total\_health , total\_education , total\_onlineshopping, total\_rent, total\_electricity, total\_transportation*

*def weekly\_expenses():*

*total\_expenses = 0 # Initialize total expenses*

*# Initialize total expenses for each category*

*total\_food\_expenses=0*

*total\_entertainment\_expenses=0*

*total\_clothes\_expenses=0*

*total\_health\_expenses=0*

*total\_education\_expenses=0*

*total\_onlineshopping\_expenses=0*

*total\_rent\_expenses=0*

*total\_electricity\_expenses=0*

*total\_transportation\_expenses=0*

*for i in range(7): # Iterate over 7 days*

*print(f"\nDay {i + 1}:")*

*answers, daily\_total , total1 , total2 , total3 , total4 , total5 , total6 , total7 , total8 , total9 = ask\_questions()*

*total\_expenses += daily\_total # Add daily total to total expenses*

*total\_food\_expenses += total1*

*total\_entertainment\_expenses += total2*

*total\_clothes\_expenses += total3*

*total\_health\_expenses += total4*

*total\_education\_expenses += total5*

*total\_onlineshopping\_expenses += total6*

*total\_rent\_expenses += total7*

*total\_electricity\_expenses += total8*

*total\_transportation\_expenses += total9*

*return total\_expenses , total\_food\_expenses , total\_entertainment\_expenses , total\_clothes\_expenses , total\_health\_expenses , total\_education\_expenses, total\_onlineshopping\_expenses, total\_rent\_expenses, total\_electricity\_expenses , total\_transportation\_expenses*

*def monthly\_expenses():*

*total\_expenses = 0 # Initialize total expenses*

*# Initialize total expenses for each category*

*total\_food\_expenses=0*

*total\_entertainment\_expenses=0*

*total\_clothes\_expenses=0*

*total\_health\_expenses=0*

*total\_education\_expenses=0*

*total\_onlineshopping\_expenses=0*

*total\_rent\_expenses=0*

*total\_electricity\_expenses=0*

*total\_transportation\_expenses=0*

*for i in range(4): # Iterate over 7 days*

*print(f"\nWeek {i + 1}:")*

*answers, weekly\_total , total1 , total2 , total3 , total4 , total5 , total6 , total7 , total8 , total9 = ask\_questions()*

*total\_expenses += weekly\_total # Add weekly total to total expenses*

*total\_food\_expenses += total1*

*total\_entertainment\_expenses += total2*

*total\_clothes\_expenses += total3*

*total\_health\_expenses += total4*

*total\_education\_expenses += total5*

*total\_onlineshopping\_expenses += total6*

*total\_rent\_expenses += total7*

*total\_electricity\_expenses += total8*

*total\_transportation\_expenses += total9*

*return total\_expenses , total\_food\_expenses , total\_entertainment\_expenses , total\_clothes\_expenses , total\_health\_expenses , total\_education\_expenses, total\_onlineshopping\_expenses, total\_rent\_expenses, total\_electricity\_expenses , total\_transportation\_expenses*

*def budget\_status(sumneeded, sumdesired, certifiedneed, certifieddesired):*

*if sumneeded > certifiedneed and sumdesired > certifieddesired:*

*print("\n You have exceeded your budget!")*

*elif sumneeded > certifiedneed and sumdesired < certifieddesired:*

*print("\n You have exceeded your certified need budget!")*

*elif sumneeded < certifiedneed and sumdesired > certifieddesired:*

*print("\n You have exceeded your certified desired budget!")*

*elif sumneeded == certifiedneed and sumdesired == certifieddesired:*

*print("\n You have spent exactly your budget!")*

*else :*

*print("\n You are within your budget!")*

*if name == "main":*

*print("\n Welcome to the Expense Tracker!\n")*

*print("Our program is a weekly expense tracker designed to help you manage your finances effectively.")*

*print("Before you start tracking your expenses, we'll ask you for some personal information.")*

*print(*

*"Based on this information, the expense tracker will prompt you daily to enter the amount you spent for each expense category.")*

*print(*

*"Additionally, it will provide personalized restrictions and tips to help you stay within your budget and achieve your financial goals.")*

*print("\nAre you excited to get started? Let's begin!\n")*

*name, age, income = get\_personal\_info()*

*if name and age and income:*

*choose = input(" \n \n Choose one of these [1] Track weekly expenses [2] Track monthly expenses")*

*if choose == "1":*

*print("\n Wellcome to your weekly expenses tracker!")*

*print(*

*"Each day you must write your expenses to provide an analysis of your expenses based on the answer (just write number in SAR)")*

*total, total\_food, total\_entertainment, total\_clothes, total\_health, total\_education, total\_onlineshopping, total\_rent, total\_electricity, total\_transportation = weekly\_expenses()*

*print(" \n \n Your total expenses for this week:", total)*

*print("\n Your total expenses for each catgoery in this week:")*

*print("Food:", total\_food)*

*print("Entertainment:", total\_entertainment)*

*print("Clothes:", total\_clothes)*

*print("Health:", total\_health)*

*print("Education:", total\_education)*

*print("Onlineshopping:", total\_onlineshopping)*

*print("Rent:", total\_rent)*

*print("Electricity:", total\_electricity)*

*print("Transportation:", total\_transportation)*

*budget\_status(*

*total\_food + total\_clothes + total\_health + total\_education + total\_rent + total\_electricity + total\_transportation,*

*total\_entertainment + total\_onlineshopping,*

*0.50 \* income,*

*0.30 \* income*

*)*

*if 0.2 \* income == income - total :*

*print("Congratulations, 20% of your income has been saved")*

*elif 0.2 \* income<income - total :*

*print("Congratulations, up 20% of your income has been saved")*

*else:*

*print("I think you should focus more on saving")*

*elif choose == "2":*

*print("\n Wellcome to your monthly expenses tracker!")*

*print("Each week you must write your expenses to provide an analysis of your expenses based on the answer (just write number in SAR)")*

*total, total\_food, total\_entertainment, total\_clothes, total\_health, total\_education, total\_onlineshopping, total\_rent, total\_electricity, total\_transportation = monthly\_expenses()*

*print(" \n \n Your total expenses for this month:", total)*

*print("\n Your total expenses for each catgoery in this month:")*

*print("Food:", total\_food)*

*print("Entertainment:", total\_entertainment)*

*print("Clothes:", total\_clothes)*

*print("Health:", total\_health)*

*print("Education:", total\_education)*

*print("Onlineshopping:", total\_onlineshopping)*

*print("Rent:", total\_rent)*

*print("Electricity:", total\_electricity)*

*print("Transportation:", total\_transportation)*

*budget\_status(*

*total\_food + total\_clothes + total\_health + total\_education + total\_rent + total\_electricity + total\_transportation,*

*total\_entertainment + total\_onlineshopping,*

*0.50 \* income,*

*0.30 \* income*

*)*

*if 0.2 \* income == income - total:*

*print("Congratulations, 20% of your income has been saved")*

*else:*

*print("I think you should focus more on saving")*