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#This program helps the user decide what movie to watch in theaters and calculate the price

#Did not use any outside source only the POGILS and the corresponding code for them

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import random
print("Hello! If youre interested in finding the right movie in theaters then youve come to the
right place!")
name = input("First can I please have your name?: ")
#Prints name three times and compliments it
print(name * 3 + ", what a nice name!")
birthday = int(input("As you know some shows/movies are limited to people under certain age
ranges\ncan you please enter your birth year: "))
year = 2020
age = year - birthday
#Defines each genre (variable) differenct movies that fit in it and spaces it out like a list
def action():
    print("Your options are:\nTenent\nThe Empire Strikes Back\nAva")
def thriller():
    print("Your options are:\nInfidel\nTenent\nUnhinged\nThe Secrets We Keep\nAva")
def mystery():
    print("Your options are:\nInfidel\nUnhinged")
def scifi():
    print("Your options are:\nThe Empire Strikes Back\nBill & Ted Face the Music")
def romance():
    print("Your options are:\nThe Broken Hearts Gallery")
def comedy():
    print("Your options are:\nThe Last Shift\nBill & Ted Face the Music")
def crime():
    print("Your options are:\nKijillonaire")
def drama():
    print("Your options are:\nThe Secrets We Keep\nKijillonaire")
#Confirms user is using the right code
movie_theater = int(input("Are you interested in watching something in theaters?\n1 = yes\n2 =
no\n"))
num_people = int(input("\nPlease enter the number of people attending: "))
if movie_theater == 1:
    #Asks for the number of people attending so the total price can be calculated later
    print("Before we get to the prices lets pick a movie shall we?\n")
    print("What genre are you most interested in watching?")
#Asks which genre the user want to watch and gives different options to select the right genre
movieTheater_genre = int(input("Action = 1\nThriller = 2\nMystery = 3\nSci-fi = 4\nRomance
= 5\nComedy = 6\nCrime = 7\nDrama = 8\n"))
#Prints out the movie options in relation to the genre the user picked
if movieTheater_genre == 1:
    action()
#Asks each person for age and if unerage tells what they can not watch
for x in range(num_people):
    age_range = int(input("\nWhat are the ages of people attending?\n"))
    if age_range <= 17:
        print("This person can't watch Ava")
    elif movieTheater_genre == 2:
        thriller()
        for x in range(num_people):
            if age_range <= 17:
                print("This person can't watch Infidel, Unhinged, The Secrets We Keep, and Ava")
    elif movieTheater_genre == 3:
        mystery()
        for x in range(num_people):
            if age_range <= 17:
                print("This person can't watch any of the movies out right now. Sorry!")
    elif movieTheater_genre == 4:
        scifi()
    elif movieTheater_genre == 5:
        romance()
    elif movieTheater_genre == 6:
        comedy()
        for x in range(num_people):
            if age_range <= 17:
                print("This person can't watch The Last Shift")
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elif movieTheater_genre == 7:
    crime()
    for x in range(num_people):
        if age_range <= 17:
            print("This person can't watch any of the movies out right now. Sorry!")
elif movieTheater_genre == 8:
    drama()
    for x in range(num_people):
        if age_range <= 17:
            print("This person can't watch any of the movies out right now. Sorry!")
#If wrong input doesnt give any movie options and moves on
else:
    print("Sorry, these are the only genres available right now!")
print("In addition to recommending you a movie we will also help you calculate the total cost!")
print("\nAs you know prices change slightly depending on the location; however, we should be able to give you a pretty accurate estimate!")
#Asks the user if they want popcorn so it can be used in the calculation
popcorn = int(input("Will you be buying popcorn?\n1 = yes\n2 = no\n"))
#Assigns a price depending on what size the user chooses
if popcorn == 1:
    pop_size = int(input("What size?\n1 for Small\n2 for Medium\n3 for Large\n: "))
    if pop_size == 1:
        pop_price = 6
    elif pop_size == 2:
        pop_price = 7
    elif pop_size == 3:
        pop_price = 8
else:
    print("Okay!")
##Asks the user if they want drinks so it can be used in the calculation
drink = int(input("Will you be buying any drinks?\n1 = yes\n2 = no\n"))
#Assigns a price depending on what size the user chooses
if drink == 1:
    drink_size = float(input("What size?\n1 for Small\n2 for Medium\n3 for Large\n: "))
    if drink_size == 1:
        drink_price = 4.99
    elif drink_size == 2:
        drink_price = 5.50
    elif drink_size == 3:
        drink_price = 5.99
elif drink == 2 or drink > 1:
    print("Okay!")
#A cheap way to demonstrate I know how to use exponents and shortcut operators
print("\nBefore I calculate the price id like to double check and make sure everything will come out correctly\n")
test1 = 5 ** 2
test2_p1 = 5
test2_p1 += 5
#Prints the two numbers without weird spacing
print(test1, "\n", test2_p1, sep="")
check = int(input("Are the two numbers above the correct answers for 5^2 and 5+5 respectively?\n1 = yes\n2 = no\n"))
#Repeats the equation until the user selects yes for the correct solutions being shown
while check != 1:
    check = int(input("Are the two numbers the correct answers for 5^2 and 5+5 respectively?\n1 = yes\n2 = no\n"))
#Thanks the reader for confirming and move on with the code
if (check == 1):
    print("Perfect!\nCalculating your total price now...")
#Assigns an equation for calculating the price without tax
initial_cost = float((9 * num_people) + pop_price + drink_price)
#Assigns an equation to find tax
tax = float((initial_cost * 6) / 100)
#Assigns an equation to calculate total cost
total_cost = float((9 * num_people) + pop_price + drink_price + tax)
#Asks the user if they want to round up
round_up = float(input("Would you like to round up and donate the extra cents to charity?\n1 = yes\n2 = no\n"))

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#Calculates the price if the user does want to round up and prints the total cost rounded up
#Also calculates the price donated to charity and displays the amount for the user
    if round_up == 1:
        print("Thank you for donating $", format((total_cost // 1 + 1) - total_cost, "0.2f") +
              "\n" "Total cost: $", format(total_cost // 1 + 1, "0.2f"), sep="")
#Calculated the total price without rounding up
    else:
        print("Youre total cost will be: $", format(total_cost, "0.2f"), sep="")
        print("Thank you for using me, have a great day!")
elif movie_theater == 2:
    print("Thats all I can do right now so have a good day!")
elif not movie_theater == 1 and 2:
    print("Okay!")
```