#1.Movie ticket prices

def calculate\_ticket\_price(age, day, is\_group):

adult\_price = 12

child\_price = 8

senior\_price = 10

if is\_group:

adult\_price \*= 0.9

child\_price \*= 0.8

senior\_price \*= 0.85

if age >= 18:

ticket\_price = adult\_price

elif 13 <= age <= 17:

ticket\_price = child\_price

else:

ticket\_price = senior\_price

if day in ['saturday', 'sunday']:

ticket\_price \*= 0.2

return ticket\_price

age = int(input("Enter age: "))

day\_of\_week = input("Enter day of the week: ")

is\_group = input("Are you part of a group? (yes/no): ") == 'yes'

ticket\_price = calculate\_ticket\_price(age, day\_of\_week, is\_group)

print(f"Your ticket price is: ${ticket\_price}")

#2.Resturant bill calculator

def calculate\_total\_amount(quantities, prices,applying\_discount, taxes, splitting\_bill):

if applying\_discount:

prices \*= 0.9

else:

print("no discount")

if splitting\_bill:

prices /= 2

return prices\*quantities+taxes

taxes = 0.01

quantities = int(input("Enter Quantities: "))

prices = int(input("Enter the Prices: "))

applying\_discount = (input("want to apply Discounts Yes/No: ")) == 'yes'

splitting\_bill = input("split the bill Yes/No: ") == "yes"

total\_bill = calculate\_total\_amount(quantities, prices, applying\_discount, taxes, splitting\_bill )

if splitting\_bill == True:

print("Your Total Bill each person is: " ,{total\_bill})

else:

print("Your Total Bill is: " ,{total\_bill})

#3.travel cost estimator

def travel\_cost(transportation\_cost, accommodation\_cost, activities\_cost, duration):

total\_cost = (transportation\_cost + accommodation\_cost + activities\_cost)

total\_cost \*= duration

return total\_cost

transportation\_cost = int(input("Enter transportation cost: $"))

accommodation\_cost = int(input("Enter accommodation cost: $"))

activities\_cost = int(input("Enter activities cost: $"))

travel\_style = input("Enter travel style (budget/luxury):") == "luxury"

duration = int(input("Enter travel duration in days: "))

total\_cost = travel\_cost(transportation\_cost, accommodation\_cost, activities\_cost, duration)

if travel\_style == False:

print("Your Estimated Travel Cost of Budget Is: $", total\_cost)

else:

print("Your Estimated Travel Cost of Luxury Is: $", total\_cost)