# Function to calculate the total price of the cart with GST

def calculate\_total\_with\_gst(cart, gst\_rate=0.18):

total = 0

for item in cart:

total += item['price'] \* item['quantity']

# Apply GST

total\_with\_gst = total + (total \* gst\_rate)

return total\_with\_gst

# Function to print the itemized cart

def print\_cart(cart):

print("Supermarket Cart:")

for item in cart:

print(f"{item['name']} - {item['quantity']} x ${item['price']} = ${item['quantity'] \* item['price']}")

print("-" \* 30)

# Example supermarket cart with items

cart = [

{'name': 'Apple', 'price': 1.5, 'quantity': 3},

{'name': 'Bread', 'price': 2.0, 'quantity': 2},

{'name': 'Milk', 'price': 1.2, 'quantity': 1},

{'name': 'Eggs', 'price': 3.0, 'quantity': 1}

]

# GST rate

gst\_rate = 0.18 # 18% GST

# Print the cart details

print\_cart(cart)

# Calculate the total cost including GST

total\_cost\_with\_gst = calculate\_total\_with\_gst(cart, gst\_rate)

print(f"Total cost (after GST): ${total\_cost\_with\_gst:.2f}")

