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# Inventory Management System
inventory = {
  "Apple": {"category": "Fruits", "unit": "kg", "stock": 50, "price": 150},
  "Orange": {"category": "Fruits", "unit": "kg", "stock": 40, "price": 120},
  "Potato": {"category": "Vegetables", "unit": "kg", "stock": 100, "price": 25},
  "Rice": {"category": "Grains", "unit": "kg", "stock": 200, "price": 50},
  "Milk": {"category": "Dairy", "unit": "liter", "stock": 100, "price": 60},
  "Biscuits": {"category": "Packaged Foods", "unit": "pack", "stock": 60, "price": 30},
}
def display inventory():
  print("\nCurrent Inventory:")
  print(f"{'Item':<12}{'Category':<20}{'Stock':<10}{'Unit':<10}{'Price (₹/Unit)':<15}")
  print("-" * 60)
  for item, details in inventory.items():
print(f"{item:<12}{details['category']:<20}{details['stock']:<10}{details['unit']:<10}{details['price']:<1
5}")
  print("-" * 60)
def place order():
  print("\nPlace your order. Type 'done' when finished.")
  order = \{\}
  while True:
     item_name = input("Enter item name (or 'done' to finish): ").strip()
     if item name.lower() == "done":
        break
     if item name not in inventory:
        print("Item not found in inventory. Please enter a valid item.")
        continue
     try:
        quantity = float(input(f"Enter quantity of {item_name} ({inventory[item_name]['unit']}): "))
        if quantity <= 0:
          print("Quantity must be a positive number. Try again.")
          continue
     except ValueError:
        print("Invalid quantity. Please enter a number.")
        continue
     available_stock = inventory[item_name]["stock"]
     if quantity > available stock:
        print(f"Only {available_stock} {inventory[item_name]['unit']} of {item_name} is available.")
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quantity = available_stock
     order[item_name] = order.get(item_name, 0) + quantity
  return order
def process_order(order):
  print("\nOrder Summary:")
  total\_cost = 0
  total weight = 0
  for item_name, quantity in order.items():
     unit_price = inventory[item_name]["price"]
     category = inventory[item_name]["category"]
     unit = inventory[item_name]["unit"]
     cost = quantity * unit_price
     total cost += cost
     if unit == "kg":
       total_weight += quantity
     # Update inventory
     inventory[item_name]["stock"] -= quantity
     print(f"{item_name}: {quantity} {unit} × ₹{unit_price}/{unit} = ₹{cost}")
  print(f"\nTotal Weight: {total_weight} kg")
  print(f"Total Cost: ₹{total_cost}")
  # Display updated inventory
  display_inventory()
  # Highlight low-stock warnings
  print("\nLow-Stock Warnings:")
  for item_name, details in inventory.items():
     if details["stock"] < 5:
       print(f" 1 {item_name} is low on stock ({details['stock']} {details['unit']} remaining).")
def main():
  print("Welcome to the Grocery Shop Inventory Management System!")
  display inventory()
  order = place_order()
  if order:
     process_order(order)
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else:
    print("\nNo items ordered. Exiting.")

if __name__ == "__main__":
    main()
```