2347265-lab-exercise-2

August 7, 2023

VISHNU SWAROOP PS - 2347265 - MCAB LAB EXERCISE - 2

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[1]: #1. Create a LIST with your domain attributes, insert the elements using the __ append (),
       insert(), extend() and add any iterables (tuples, sets, __ dictionaries etc.) to the list (Use all
       the methods ).
     pharmacy attributes = []
     pharmacy attributes.append("Inventory Management")
     pharmacy_attributes.append("Prescription Processing")
     print(pharmacy attributes)
     pharmacy_attributes.insert(2, "Drug Interactions Checking")
     pharmacy_attributes.insert(4, "Pharmacist Dashboard")
     print(pharmacy_attributes)
     tuple = ("Pharmacy Analytics", "Barcode Scanning", "e-Prescriptions") print(tuple)
     pharmacy attributes.extend(tuple)
     print(pharmacy attributes)
     set = {"Drug Pricing", "Pharmacy Billing"}
     print(set)
     pharmacy_attributes.extend(set)
     print(pharmacy_attributes)
     dict = {"Robotic Dispensing": True, "Electronic Health Records": True} print(dict)
     pharmacy_attributes.extend(dict.keys())
     print(pharmacy_attributes)
     ['Inventory Management', 'Prescription Processing']
     ['Inventory Management', 'Prescription Processing', 'Drug Interactions Checking',
     'Pharmacist Dashboard']
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('Pharmacy Analytics', 'Barcode Scanning', 'e-Prescriptions') ['Inventory Management', 'Prescription Processing', 'Drug Interactions Checking', 'Pharmacist Dashboard', 'Pharmacy Analytics', 'Barcode Scanning', 'e-Prescriptions'] {'Pharmacy Billing', 'Drug Pricing'}

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['Inventory Management', 'Prescription Processing', 'Drug Interactions Checking',
     'Pharmacist Dashboard', 'Pharmacy Analytics', 'Barcode Scanning', 'e-Prescriptions',
     'Pharmacy Billing', 'Drug Pricing']
     {'Robotic Dispensing': True, 'Electronic Health Records': True} ['Inventory Management',
     'Prescription Processing', 'Drug Interactions Checking', 'Pharmacist Dashboard',
     'Pharmacy Analytics', 'Barcode Scanning', 'e-Prescriptions', 'Pharmacy Billing', 'Drug
     Pricing', 'Robotic Dispensing', 'Electronic Health Records']
   [6]: #2 Create a list with numeric and perform the following operations. # a. Write a
program to swap the first and last elements in a list. # b. Write a program to find the sum
     of the digits in a list. # c. Write a program to find the smallest element in a list.
     num list = [10, 3, 75, 28, 23, 45]
     num_list[0], num_list[-1] = num_list[-1], num_list[0]
     print("After swapping:", num_list)
     added = sum(num list)
     print("Total sum:", added)
      smallest = min(num list)
     print("Smallest :", smallest)
     After swapping: [45, 3, 75, 28, 23, 10]
     Total sum: 184
     Smallest: 3
[1]: # ii) Dictionaries
      # a. Sort the dictionaries in ascending order based on the Key of the ___dictionary.
     pharmacy_inventory = {'Aspirin': 100,'Paracetamol': 50,'Cough Syrup':__
       ⊸75,'Antibiotics': 30,'Vitamin C': 60}
      sorted inventory = dict(sorted(pharmacy inventory.items()))
     print("Pharmacy Inventory (Sorted by Key):")
     for item, quantity in sorted inventory.items():
          print(f"{item}: {quantity}")
     Pharmacy Inventory (Sorted by Key):
     Antibiotics: 30
     Aspirin: 100
                                                      2
     Cough Syrup: 75
     Paracetamol: 50
     Vitamin C: 60
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[7]: # b. Create the dictionary with Numeric as Value in Key – Value pair and find __ •the sum of all the values in the Dictionary.

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'paracetamol': 100,
           'aspirin': 75,
           'ibuprofen': 50,
           'antacid': 121,
           'antibiotic': 200
     }
     total_stock = sum(pharmacy_dict.values())
     print("Pharmacy Dictionary:")
     for key, value in pharmacy_dict.items():
          print(key, ":", value)
     print("Sum of all values in the dictionary:", total_stock)
     Pharmacy Dictionary:
     paracetamol: 100
     aspirin: 75
     ibuprofen: 50
     antacid: 121
     antibiotic: 200
     Sum of all values in the dictionary: 546
[8]: # c. Write a Python code to demonstrate the sorting in descending order of __ ~values with
       lambda function.
     pharmacy_dict = {
           'paracetamol': 100,
           'aspirin': 75,
           'nocold': 50,
           'antacid': 120,
           'antibiotic': 200
     }
      sorted_pharmacy_dict = dict(sorted(pharmacy_dict.items(), key=lambda item:_
       -item[1], reverse=True))
     print("Sorted pharmacy dictionary in descending order of stock quantities:") for medicine,
     quantity in sorted_pharmacy_dict.items():
          print(medicine, ":", quantity)
                                                     3
     Sorted pharmacy dictionary in descending order of stock quantities: antibiotic:
     200
     antacid: 120
     paracetamol: 100
```

pharmacy dict = {

aspirin: 75 nocold: 50