Tas K NO-4.1 Date !- noteter

CAFETERIA SALES

Aim: Record a cafeteria's snack sales for 7 days using a list; compute total and average sales, find the best/wors day, and count how many days crossed atanget.

Algorithm :

-> Stool F

-> create an empty list sales = 1

-> for Idays, append integer sales to the list using appenol.

-> compute total = sum(sales) and avg = total/7.

-> find max-val = max(sale), min-val = min(sale).

-> find corresponding days with index ()

-s count days aboute a touget using count() on a booled remap or with a loop.

-> stop

program: (uses append (), index (), count ());

list scenario

day = 7

Sala = 1]

touget = 500 # touget sales for the day.

for B in range (8):

5 ample - entries = int (input ("enter the sevendays sales count")

sales. append (sample - entries) # 1ist append()

total = sum (sales)

org = total ldays

max -val = max (sales)

min - val = min (sales)

Sample proput loot put :

enter the seven days sales count: 450 enter the seven days sales count: 1250 enter the seven days sales count: 92 enter the seven days sales count: 348 enter the seven days sales count: 900 enter the seven days sales count: 900 enter the seven days sales count: 900 enter the seven days sales count: 239

sales (mon. sun): (100,450,1250, 589, 98,348, 900,239)

Total :3974

Average :567.71

Best Day = 3 with 1250

worst days with 98

best-day = sales index(max-val) +1 # list index()

worst-day = sales index(min-val) +1

print ("sales (mon-sun)", sales)

print ("Total:", Hotal)

print ("Average:", round(avg12))

print ("Best Day:", best-day, "with", max-val)

print ("klorst Day!", klorst-day, "with", min-val)

TUPLE - LAB TIMETABLE

Aim: To manage and query and immutable daily lab slot schedule using a tuple, demostrating membership checker count(), index(), and elicing.

Algorithm .

- -> Stool-
- -> Detine slots as a tixed tuple of integers.
- pead quory hour.
- -> check existence with query in slok.
- -> use count (); it positive, use index () to tind the first
- & siece ento monitoring and attempon
- -> print resotts.
- -> stop.

Program:

TUPLE Scenario

slots = (9,11,14,16,14) # immutable daily schedule

crists = (query in slots)

freq = slots. count (query)

tuple . count() -lirst - pos = slots index (query) + 1 it exists elce "NIA"

tuple . Index()

moralng = slots [:2]

atternoon = 510t5 [2:]

print ("All lab slots:", slots)

print (f" Is squery 3:00 Present 1", exists)

Print ("flqueryg: 00 occurs", freq, "time(s)")

print ("first occurence position (1-based):", tivst-pos)

print (" Morning slots", morning)

print ('Afternoon'slots: ", of ternoon)

Pample Doportoutput:

All lab slots: (9,11,14,16,14)

De 14:00 present? True

14:00 present? true

14:00 present? true

first accurence Position (1-based):3

morning slots: (9,11)

Afternoon slots: (14,16,14)

DICTIONARY - BOOKSTORE BILLING

Alm :-

To manage a like price list and bill a costomer using dictionary methods and views.

Algorithm :

-> start

-> Create an empty dictionary prices.
-> Abk the user-for the number of items in the price list

> Depeat -for each ftem:

+ Get the item priname.

ocet the item price.

and authority and the item and price to prices.

ASK the user for an item to update.

It the item exists in prices, get the new Price and update et.

find the costlict frem by checking each item's price. ASK the user for an Ptem to remove.

It given, remove that item from prices.

show all available items, their prices, the cost liest item,

and the removed item's price.

stop.

ram ..

Prices = 0 5 4

n= int (input ("enter number of items in price (ist: ")) for -in range (n1).

Jos Farm most to

item = input ("inter item name:")

Price = float (input (f "Inter price of Sitemy:"))

Prices (item] = price

Enter the no. of iten in the list.3 Enter item name = box enter price of box is Enter êtem name ! pen enter price of pen:10 enter iten nome = pence enter price of pencil: 15. Enter item to update price box enter new price for box:20 enter an item from price list: pen avoulable étems: ['box', 'pence'] Price : [20.0,5.0] costliest êtem: boordat 20.0 Removed Pon' price: 10.0

```
# optional price revision
             rev-item=input ("Enter 1 tem toupdate price (or press
                                                    enter toskip):
             strev-item in prices:
                new price = float (input if "toter new price for
                                              {vev-itemy:"))
              prices · update ( { rev-item : new-price }) # dict · update(
            # find costliat item
            Cost l'est - item = None
            max-price = 0
          -for item, price in Prices. items();
               Pt price > max-price:
                max - price = price
                costlict - item = item
           #Pembve out - ot - stock Ptem
          remove - item = input ( 'Enter an Ptom to remove from
                                   Price list (or press enter toskip);
            removed - price = None
             It remove - item:
              . removed -price = price(, pop(remove-item, mone)
           # pisplay recult
                                                       # dict pop
        Print ("In tvailable Hems!", list (prices - reys()))
      Print l'prices: ", list (prices. keys ())) # dict. keys ()
                                                    # dict . Keye C.
      PARM Pt costlicet litem:
              Pritt l'costli est item!", costliet_item, "at",
 TANDAMANOT YERDOVE - i tem:
                                                    max-price)
          Print (f "Demoved " Fremove - item } price
 WITH DATE
                             (it existed): ", removed - price)
Esult: This, valious data types, list, Tuples and Dicti
 Atten programming was used and verited successful
```