

TASK 4: Scale of new stack recorded for 7 days  
8/18/25

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

Algorithm:-

- 1) Start
- 2) Create an empty list sales = [].
- 3) For 7 days, append integer sales to the list using append()
- 4) Compute total = sum(sales) and avg = total / 7
- 5) Find corresponding days with index()
- 6) Count days above a target using count() on a boolean re-map
- 7) Stop

Program

# List scenario

days = 7

Sales = []

target = 500

sample INPUT:-

=RESTART-C : /users/Bharani/ APP DATA / Local /  
programs / Python / Python 313 / list sales . py

enter the seven days Count 100

450

1250

589

198

348

198

348

900

239

Output :-

Sales (mon...sun) : [100, 450, 1250, 589, 48,  
348, 900, 239]

Total : 3974

Average : 567.7

Best Day : 3 with 1250

Worst Day : 5 with 98

1	PERFORMANCE
2	RESULTS AND ANALYSIS
3	ANALYSIS
4	RECORDS
5	TOTAL (50)
6	SEARCH DATE

Program to calculate the total sales  
and average sales made in a week  
and also to find the best day and worst day  
of the week.

for s in range(8):

    sample\_entries = int(input('Enter the  
    seven days sales count'))

    sales.append(sample\_entries) #list.append()

total = sum(sales)

avg = total / days

max\_val = max(sales)

min\_val = min(sales)

best\_day = sales.index(max\_val) + 1

worst\_day = sales.index(min\_val) + 1

print("Sales (Mon-Sun):", sales)

print("Total:", total)

print("Average:", round(avg, 2))

print("Best Day:", best\_day, "with", max\_val)

print("Worst Day:", worst\_day, "with", min\_val)

Result:- Thus, the program has been verified

and executed successfully

4.2

Aim:- To manage and query an immutable daily lab slot schedule using a tuple, demonstrating membership and slicing.

Algorithm:-

- 1) START
- 2) DEFINE SLOTS as a fixed tuple of integers
- 3) Read query hour
- 4) Check existence with query in slots
- 5) USE COUNT(); if positive, use index() to find the first position
- 6) Slice into morning and afternoon
- 7) print results
- 8) STOP

Python program

#TUPLE scenario

SLOTS = (9, 11, 14, 16, 14)

query = 14

exist = (query in slots)

Freq = slots.count(query)

first\_pos = slots.index(query) + 1 if exist  
else "N/A" # tuple.index()

Output:-

(10, 'hello', 3.14, 'world')

10

hello

3.14

(10, 'hello', 3.14)

morning = slots [ : : ]

afternoon = slots [ 2 : ]

Print("All lab slots : ", slots)

Print(F"Is {query} 3:00 present?", exists)

Print(F" {query} 3:00 occurs", freq, "time(s)"))

Print("First occurrence position (1-based):", first\_pos)

Print("Morning slots : ", morning)

Print("Afternoon slots : ", afternoon)

[query, freq] : [pos, pos]

query : 300, freq : 2200

pos : 10, pos : 10

query : 300, freq : 2200

Result:- Thus, the program has been verified  
and executed successfully

4.3

Aim:- To manage a live price list and bill a customer using dictionary methods and views.

Algorithm:-

- 1) Start
- 2) Create an empty dictionary prices.
- 3) Ask the user for the number of items in the price list ( $n$ ).
- 4) Repeat for each item:
  - 5) Get the item name
  - 6) Get the item price
  - 7) Add the item and price to prices
  - 8) Ask the user for an item to update
  - 9) If the item exists in prices, get the new price, and update it
  - 10) Find the costliest item by checking each item's price
  - 11) Ask if the user for an item to remove
  - 12) Show all available items, their prices, the costliest item, and the removed item's price
- (3) Stop

### sample input

enter no. of items in price list : 3

item name : box

item

price of box : 15

item name : pen

price of pen : 10

item name : pencil

price of pencil : 5

Update Price : box

New Price for box : 20

remove from price list : pen

available items : ['box', 'pencil']

prices : [20, 0, 5, 6]

Costliest item : box at ₹ 20/-

'Pen' price (if existed) : 100

## Python program:-

Prices = {}

n1 = int(input("Enter number of items in price list:"))

for i in range(n1):

item = input("Enter item name:")

price = float(input("Enter price of item?"))

prices[item] = price

#optional Price revision  
rev\_item in prices:

new\_price = float(input("Enter new price"))

prices.update({rev\_item: new\_price})

#Display results

print("Available items:", list(prices.keys()))

print("prices:", list(prices.values()))

if costliest\_item:

print("costliest item:", costliest\_item,  
"at", max\_price)

if remove\_item:

print("Removed", remove\_item)

VEL TECH	
EX NO.	4
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	
TOTAL (20)	
SIGN WITH DATE	15

Result:- To manage a live price list and bill a customer using dictionary methods are executed and verified successfully.