

TASK 4:-

use various data type, lists, triples

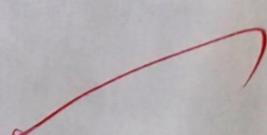
Q.4:- List - cafeteria sales

In your college Cafeteria the sales of a new snack for today, Monday to Sunday. Store values in a list. Then find the average sales. Identify the best and worst sales day using index 4.

Algorithm :-

1. Start
2. Create an empty list sales = []
3. for 1 days, append integers sales
4. Compute total (\leftarrow sum)
5. min_val \leftarrow min
6. best-day
7. Print ("sales : (mag.sum):", sales).
8. Print ("total:", total)
9. Print with a loop
10. Stop.

Cafeteria Sales	
Monday	100
Tuesday	150
Wednesday	200
Thursday	180
Friday	220
Saturday	250
Sunday	280



Wilson Ballal
Date: 2023-01-20
Time: 10:00 AM
Page No.: 02

Programs

list scenario

days = 7

sales = []

target = 500 # Target sales for the day

for s in range(8):

avg = total

sum += int

total = sum

max_val = max

min_val = min(sales)

best_day = sales[0], sales[1], sales[2], sales[3], sales[4], sales[5], sales[6]

print("Total:", total)

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print("Best day: ", best_day, "with", max_val)

15.000 = CVA

print("Worst day: ", worst_day, "with", min_val).

0251.000 E : 2000.000
8P 14.00 3 - 6.00 5.00

sample input / output :-

Enter the seven day sales count 100
enter the seven day sales count 150
enter the seven day sales count 1250
enter the seven days sales count 589
enter the seven days sales count 98
enter the seven days sales count 348
enter the seven days sales count 900
enter the seven days sales count 239

sales (mon-sun); [100, 150, 1250, 589, 98, 348, 900, 239]

Total : 3974

(100, 150, 1250, 589, 98, 348, 900, 239)

Avg = 567.21

(100-150, 1250, 589, 98, 348, 900, 239)

best day : 3 with 1250

(lowest day : 5 with 98)



python Program :-

triple scenario

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

query = 14

exists = (query in slots)

first_pos = slots[?]

afternoon = slots[2:]

Print ("Is {} present? ".format(exists)).

Print ("{} occurs at index {}.".format(query, first_pos))

Print ("first occurrence position (1-based): ".format(first_pos))

Print ("morning slots: ", morning)

Print ("Afternoon slots: ", afternoon)



Task U.2 Lab time table

Aim :- To manage department has a fixed daily lab schedule represented by a triple of starting slot.

Algorithm :-

1. Start
2. Define slots as a fixed triple of integers
3. Read query hours.
4. Check existences with query in slots.
5. use count(); if positive, use index
6. slice into morning and afternoon
7. Print results
8. Stop.

Sample input / output:-

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

Is 14:00 Present ? True

14:00 occurs

Morning Slots : (9,11)

afternoon Slots : - (14,16,14)



Python Program:-

Prices = {}

n = int(input("enter number of items in Price list:"))

for m in range(n):

item = input("Enter item name: ")

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

Prices[item] = price

optional price revision

rev_item = input("Enter internal item: ")

Prices[rev_item] = float(input("Enter new price:"))

dict. update

max_price = 0

for item, price in Prices:

if price > max_price:

worst_item = item

Remove out-of-stock item from Price list

removed_item

removed_price = Prices.pop(removed_item, None)

dict.pop()

TASK 4.3

QUESTION PAPER - 10

Dictionary - Booking - Billing:

AIM:-

To manage a live Price list and, billing + a customers using and views.

Algorithm:-

1. Start

2. Create an empty dictionary Prices

3. Ask the user for the number of items in the Price

4. Read for each items.

5. Get the items name.

6. Get the price.

7. Add the items to Prices

8. Ask the users for an items 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 price.

11. Ask the user ~~for~~ for an item

12. If given, remove that item from Prices.

13. Stop.

display results

```
Print ("In available items:", list (Price::keys ())) # dict keys  
Print ("Price :", list (Price::values ())) # dict values  
if constliest::item?  
    Print ("constliest item: at" mar::Price)
```

```
if remove::item?
```

```
Print ("removed" remove::item " price of existed")  
removed::Price
```

sample input\output:-

Enter number of items in price list:-3

Enter item name:-box

Enter Price name:-15

Enter Item of Pen:-10

Enter Price of Pencil:-5

Enter item of update Price:-box

Enter new Price for box:-20

Enter an item of remove from price list:-Pen

variable items : ['box', 'Pencil']

Prices:- [20, 15]

costliest item :- box at 20.0

Removed 'Pen'. Price :- 10.0

```

# Get AI Hackathon Participants
ai_hackathon = set()
n = int(input("enter number of participants in AI Hackathon"))
for _ in range(n):
    p_id = input()
    ai_hackathon.add(p_id)

# Get Robotics Challenges
robotics_challenge = set()

# Add a late registrant
late_id = input("enter late registrant ID for all")
if late_id:
    ai_hackathon.add(late_id) # set.add()

# Remove a withdrawer
remove_id = input("Robotics challenge")
ai_hackathon.remove(remove_id)

# set operations

both = ai_hackathon.intersection(robotics_challenge)
only_ai = ai_hackathon.difference(robotics_challenge)
only_robotics = robotics_challenge.difference(ai_hackathon)
unique = ai_hackathon.union(robotics_challenge)

# output
print("In A Hackathon:", ai_hackathon)
print("Robotics Challenge:", robotics_challenge)
print("Both events:", both)
print("only AI:", only_ai)
print("only Robotics:", only_robotics)
print("total unique participants:", len(unique))

```

will self-select first participation

Two events, AI Hackathon and Robotics challenge, have participants' IDs stored in two sets. Add a late registrant to AI hackathon remove a withdrawn participant from Robotics using `discard()`, then

find participants in both events (intersection()), only in one (difference()),
the total unique participants (union()).

Digitized by srujanika@gmail.com

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Mathematics Departmental Conference Report 2019

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SAMPLE INPUT / OUTPUT:-

>>>

= RESTART : C:/Users/ Bhavasi (APP data/ local/ programs/ Python/ Python 3/)

Enter number of participants in AI Hackathon : 4

Enter participant ID : A1

Enter participant ID : A2

Enter participant ID : A3

Enter participant ID : A5

Enter number of participants in Robotics challenge : 4

Enter participant ID : A1

Enter participant ID : A2

Enter participant ID : A3

Enter participant ID : A7

Enter late registrant ID for AI Hackathon (or press enter to skip) :

Enter withdrawn participant ID from Robotics Challenge (or press to skip) : A1

AI Hackathon : {'A1', 'A4', 'A5', 'A8', 'A2'}

Robotics challenge : {'A2', 'A7', 'A3'}

Both events : {'A2'}

ONLY AI : {'A4', 'A8', 'A5', 'A1'}

ONLY Robotics : {'A2', 'A3'}

>> total unique participants : 7



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

Result: Thus, various data types, list, tuples and Dictionary in Python Programming was used and verified successfully