WEEK 8 - TUPLE

Started on	Tuesday, 30 April 2024, 7:01 PM
State	Finished
Completed on	Friday, 3 May 2024, 12:35 PM
Time taken	2 days 17 hours
Marks	5.00/5.00
Grade	**50.00** out of 50.00 (**100**%)
Name	RAHUL S 2022-CSD-A

Question **1**

Correct

Mark 1.00 out of 1.00

Flag question

Create a tuple, remove an item from the tuple, and display the tuple.

Sample input:

5 : No of items

2020 : tuple items

'd'

"rec"

'python'

'tuple'

python : item to be removed

Sample Output:

('2020','d,'rec','tuple')

For example:

Input	Result
4 samsung vivo redmi Vijay Vijay	('samsung', 'vivo', 'redmi')

```
n = int(input())
items = []
for _ in range(n):
    items.append(input())
item_to_remove = input()
my_tuple = tuple(items)
my_tuple = tuple(item for item in my_tuple if item != item_to_remove)
print(my_tuple)
```

	Input	Expected	Got	
✔	4 samsung vivo redmi Vijay Vijay	('samsung', 'vivo', 'redmi')	('samsung', 'vivo', 'redmi')	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **2**

Correct

Mark 1.00 out of 1.00

Flag question

Write a python program to find the the total and average of the students mark. print the total and average of each student as tuple.

Input: first line no.of student, next n * 4 line student marks(four lines for each tuple)

```
3
20
30
35
45
30
54
60
45
50
60
70
75
```

Output:

Total : (130,189,255)

Average : (32.50,47.25,63.75)

For example:

Input	Result
3 20 30 35 45 30 54 60 45 50 60 70 75	Total : (130, 189, 255) Average : (32.5, 47.25, 63.75)

```
n = int(input())
totals = []
averages = []
for _ in range(n):
    total = 0
    marks = []
    for _ in range(4):
        marks.append(int(input()))

    total = sum(marks)
    average = total / len(marks)
    totals.append(total)
    averages.append(average)
print("Total :", tuple(totals))
print("Average :", tuple(averages))

```

	Input	Expected	Got	
✔	3 20 30 35 45 30 54 60 45 50 60 70 75	Total : (130, 189, 255) Average : (32.5, 47.25, 63.75)	Total : (130, 189, 255) Average : (32.5, 47.25, 63.75)	✔
✔	2 30 20 25 10 25 10 15 50	Total : (85, 100) Average : (21.25, 25.0)	Total : (85, 100) Average : (21.25, 25.0)	✔
✔	3 54 65 85 20 20 38 46 78 56 42 36 18	Total : (224, 182, 152) Average : (56.0, 45.5, 38.0)	Total : (224, 182, 152) Average : (56.0, 45.5, 38.0)	✔

Passed all tests! ✔

Question **3**
Correct
Mark 1.00 out of 1.00
Flag question

Write a Python program to check whether an element exists within a tuple.
sample input:
3 : no of elements
REC
RIT
RSB
REC: ELEMENT TO CHECK
SAMPLE OUTPUT:
True

```
n=int(input())
inputs=[input() for i in range(n)]
s=input()

if s in inputs:
    print("True")
else:
    print("False")
```

	Input	Expected	Got	
✔	3 REC RIT RSB REC	True	True	✔
✔	2 vijay kumar rec	False	False	✔

Passed all tests! ✔

Question **4**

Correct

Mark 1.00 out of 1.00

Flag question

Rahul went to a supermarket to buy some product, he has purchased the products and about to pay the bill, where the items he purchased is been stored in a nested tuples in the following order ((item_name,item_cost,no_of_item)), consider raju has purchased 5 items, calculate the total cost for the items he purchased.

sample input:

bread

45

5

milk

40

2

cheese

60

2

butter

90

2

jam

60

2

sample output: 725

```
total_cost = 0
while True:
    try:
        item_name = input().strip()
        if not item_name:
            break
        item_cost = int(input().strip())
        no_of_item = int(input().strip())
        total_cost += item_cost * no_of_item
    except EOFError:
            break
print(total_cost)
```

	Input	Expected	Got	
✔	bread 45 5 milk 40 2 cheese 60 2 butter 90 2 jam 60 2	725	725	✔
✔	noodles 55 5 egg 10 10 ketchup 80 2 cooldrinks 100 2 fruit 160 2	1055	1055	✔

Question **5**

Correct

Mark 1.00 out of 1.00

Flag question

Create a tuple:

my_tuple = ('R','a','j','a','l','a','k','s','h','m','i')

and apply slicing and display the output as shown below:

('R', 'a', 'j', 'a')
('l', 'a', 'k', 's', 'h', 'm', 'i')
('R', 'a', 'j')
('l', 'a', 'k')
('m', 'i')

```
1  my_tuple = ('R','a','j','a','l','a','k','s','h','m','i')
2  print(my_tuple[0:4])
3  print(my_tuple[4:len(my_tuple)])
4  print(my_tuple[0:3])
5  print(my_tuple[4:7])
6  print(my_tuple[9:len(my_tuple)])
```

	Expected	Got	
✔	('R', 'a', 'j', 'a') ('l', 'a', 'k', 's', 'h', 'm', 'i') ('R', 'a', 'j') ('l', 'a', 'k') ('m', 'i')	('R', 'a', 'j', 'a') ('l', 'a', 'k', 's', 'h', 'm', 'i') ('R', 'a', 'j') ('l', 'a', 'k') ('m', 'i')	✔

Passed all tests! ✔