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Started on	Sunday, 5 May 2024, 10:03 PM
State	Finished
Completed on	Sunday, 5 May 2024, 10:18 PM
Time taken	15 mins 35 secs
Marks	5.00/5.00
Grade	**50.00** out of 50.00 (**100**%)
Name	LIVIA MARY SEBASTIAN 2022-CSD-A

Question **1**

Correct

Mark 1.00 out of 1.00

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

Answer: (penalty regime: 0 %)

```python
1  def check_element_in_tuple(elements, element_to_check):
2      tuple_elements = tuple(elements)
3      return element_to_check in tuple_elements
4
5  if __name__ == "__main__":
6      n = int(input())
7      elements = []
8      for _ in range(n):
9          element = input()
10         elements.append(element)
11     tuple_elements = tuple(elements)
12     element_to_check = input()
13     result = check_element_in_tuple(tuple_elements, element_to_check)
14     print(result)
15
```

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

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **2**

Correct

Mark 1.00 out of 1.00

Write a program to unpack the following tuple into variables depends on the length of tuple (Max length = 10) and display each values separately.

Sample Input:

4

10

30

40

60

Sample Output:

a=10

b=30

c=40

d=60

Answer: (penalty regime: 0 %)

```python
def unpack_tuple_and_display(values):
    variable_names = ['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j']
    for i in range(len(values)):
        variable_name = variable_names[i]
        variable_value = values[i]
        print("{}={}".format(variable_name, variable_value))

if __name__ == "__main__":
    n = int(input())
    values = []

    for _ in range(n):
        value = input()
        values.append(value)
    unpack_tuple_and_display(values)
```

	Input	Expected	Got	
✔	4 10 30 40 60	a=10 b=30 c=40 d=60	a=10 b=30 c=40 d=60	✔

	Input	Expected	Got	
✔	9 15 60 75 85 90 70 35 25 45	a=15 b=60 c=75 d=85 e=90 f=70 g=35 h=25 i=45	a=15 b=60 c=75 d=85 e=90 f=70 g=35 h=25 i=45	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **3**

Correct

Mark 1.00 out of 1.00

Create different types of tuples as per below-mentioned values and print the same.

()
(4, 5, 8)
(1, 'ECE', 'MCT', 'R&A', 3.4)
('Python', [8, 4, 6], (1, 2, 3))

Answer: (penalty regime: 0 %)

```
 1  empty_tuple = ()
 2  print(empty_tuple)
 3
 4  int_tuple = (4, 5, 6)
 5  print(int_tuple)
 6
 7  mixed_tuple = (1, 'ECE', 'MCT', 'R&A', 3.4)
 8  print(mixed_tuple)
 9
10  nested_tuple = ('Python', [8, 4, 6], (1, 2, 3))
11  print(nested_tuple)
12
13
```

	Expected	Got	
✔	() (4, 5, 6) (1, 'ECE', 'MCT', 'R&A', 3.4) ('Python', [8, 4, 6], (1, 2, 3))	() (4, 5, 6) (1, 'ECE', 'MCT', 'R&A', 3.4) ('Python', [8, 4, 6], (1, 2, 3))	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **4**

Correct

Mark 1.00 out of 1.00

Write a program to read a string and a character and find the whether the character is available in the string or not. Print True if the character is present in the string, False otherwise.

Sample Input

Rakalakshmi

a

Sample Output

True

Sample Input

Rakalakshmi

b

Sample Output

False

Answer: (penalty regime: 0 %)

```python
1  def is_character_present(string, char):
2      return char in string
3
4  if __name__ == "__main__":
5      string = input()
6      char = input()
7      result = is_character_present(string, char)
8      print(result)
9
```

	Input	Expected	Got	
✔	Rajalakshmi a	True	True	✔
✔	Rajalakshmi b	False	False	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **5**

Correct

Mark 1.00 out of 1.00

Write a python program to read a string and a character, print the number of occurrence of the character in the string and the location of the first occurrence.

Note: To convert an input string to tuple use tuple(variablename).

Sample Input

Apple

p

Sample Output

2

1

Answer: (penalty regime: 0 %)

```
1   my_string = input()
2   my_char = input()[0]
3
4   count = 0
5   first_occurrence = -1
6
7   for i, char in enumerate(my_string):
8       if char == my_char:
9           count += 1
10          if first_occurrence == -1:
11              first_occurrence = i
12
13  if count > 0:
14      print(count)
15      print(first_occurrence)
16  else:
17      print("Character not found")
18
```

	Input	Expected	Got	
✔	Apple p	2 1	2 1	✔
✔	Rajalakshmi a	3 1	3 1	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

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