Started on	Friday, 5 April 2024, 12:24 PM
State	Finished
Completed on	Wednesday, 10 April 2024, 11:49 AM
Time taken	4 days 23 hours
Marks	5.00/5.00
Grade	**50.00** out of 50.00 (**100**%)
Name	ABHIGNYA P 2022-CSD-A

Question **1**

Correct

Mark 1.00 out of 1.00

Write a Python program to get one string and reverses a string. The input string is given as an array of characters `char[]`.

You may assume all the characters consist of printable ascii characters.

Example 1:

```
Input:
hello
Output:
olleh
```

Example 2:

```
Input:
Hannah
Output:
hannaH
```

Answer: (penalty regime: 0 %)

```
a=input()
print(a[::-1])
```

	Input	Expected	Got	
✔	hello	olleh	olleh	✔
✔	Hannah	hannaH	hannaH	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **2**

Correct

Mark 1.00 out of 1.00

Given a string, determine if it is a palindrome, considering only alphanumeric characters and ignoring cases.

Note: For the purpose of this problem, we define empty string as valid palindrome.

Example 1:

```
Input:
A man, a plan, a canal: Panama

Output:
1
```

Example 2:

```
Input:
race a car

Output:
0
```

Constraints:

- `s` consists only of printable ASCII characters.

Answer: (penalty regime: 0 %)

```
a=input()
a=a.lower()
a=''.join(char for char in a if char .isalpha())
b=a[::-1]
if(a==b):
    print(1)
else:
    print(0)
```

	Input	Expected	Got	
✔	A man, a plan, a canal: Panama	1	1	✔
✔	race a car	0	0	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **3**

Correct

Mark 1.00 out of 1.00

Write a code to reverse the case of a character input

Input Format:

Single character Input

Output Format:

Reversed character

Example Input:

R

Output:

r

Example Input:

a

Output:

A

For example:

Input	Result
R	r
a	A

Answer: (penalty regime: 0 %)

```
def reverse(char):
    if char.isupper():
        return char.lower()
    elif char.islower():
        return char.upper()
    else:
        return char

input_char=input()
reversed_char=reverse(input_char)
print(reversed_char)
```

	Input	Expected	Got	
✔	R	r	r	✔
✔	a	A	A	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **4**

Correct

Mark 1.00 out of 1.00

Consider the below words as key words and check the given input is key word or not.

keywords: {break, case, continue, default, defer, else, for, func, goto, if, map, range, return, struct, type, var}

Input format:

Take string as an input from stdin.

Output format:

Print the word is key word or not.

Example Input:

break

Output:

break is a keyword

Example Input:

IF

Output:

IF is not a keyword

For example:

Input	Result
break	break is a keyword
IF	IF is not a keyword

Answer: (penalty regime: 0 %)

```
a=input()
b=["break","case","continue","default","defer","else","for","func","goto","if","map","range","return",
if a in b:
    print(a, "is a keyword")
else:
    print(a, "is not a keyword")
```

	Input	Expected	Got	
✔	break	break is a keyword	break is a keyword	✔
✔	IF	IF is not a keyword	IF is not a keyword	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **5**

Correct

Mark 1.00 out of 1.00

Assume that the given string has enough memory.

Don't use any extra space(IN-PLACE)

Sample Input 1

a2b4c6

Sample Output 1

aabbbbccccccc

Answer: (penalty regime: 0 %)

```
def string(s):
    s1=""
    i = 0
    while i < len(s):
        char = s[i]
        if i + 1 < len(s) and s[i + 1].isdigit():
            count_str = ""
            while i + 1 < len(s) and s[i + 1].isdigit():
                count_str += s[i + 1]
                i += 1
            count = int(count_str)
            s1 += char * count
            i += 1
        else:
            s1 += char
            i += 1
    return s1
s = input()
print(string(s))
```

	Input	Expected	Got	
✔	a2b4c6	aabbbbccccccc	aabbbbccccccc	✔
✔	a12b3d4	aaaaaaaaaaaabbbdddd	aaaaaaaaaaaabbbdddd	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

◄ Week-06_MCQ

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