

Sl. No	Functionality	Test cases	Expected results	Actual results	Inference	RCA	Code snippet causing the issue
a	a. Input a string b. Loop through each character in the string. c. In the loop check whether that character is UPPER CASE or not. If Upper case is found it returns true. If not found it returns False.	"this Is a test"	TRUE	FALSE	This function doesn't serve the actual functionality	The problem with this logic is it returns False and breaks the loop for searching of Upper case character the moment it encounters a lower case character which is not intended. This will work only when the First character is Upper case. The highlighted code section is creating the issue.	else: return False
		"This is a test"	TRUE	TRUE			
b	a. Input a string b. Loop through each character in the string. c. In the loop check whether the character 'c' is UPPER CASE or not.	"this Is a test"	TRUE	FALSE	This function doesn't serve the actual functionality	In the loop instead of checking character of the string we are checking a hard-coded character 'c' is Upper case or not. Always this condition will result in False. The below code section is causing the issue. The code will never give the correct output.	if 'c'.isupper(): return 'True'
		"This is a test"	TRUE	FALSE			
c	a. Input a string b. Loop through each character in the string. c. In the loop set the flag to the Boolean output whether the character of the string is Upper case or not and update it in each iteration. d. Finally return the result of the flag	"this Is a test"	TRUE	FALSE	This function doesn't serve the actual functionality	The problem with this logic is it goes on updating the flag with each character. So it will only give True only when the last character is upper case.	flag = c.isupper()
		"this is a tesT"	TRUE	TRUE			
d	a. Input a string. b. Initially set flag as False b. Loop through each character in the String d. Inside the loop perform a binary operation (flag or boolean output of character.isUpper()) This makes sure that once flag is set to True when we encounter an upper case character it will remain as True till the end of the loop.	"this Is a test"	TRUE	TRUE	This function serves the actual functionality	This function serves the intended functionality	N/A
		"this is a test"	FALSE	FALSE			

e	Assumption: The last statement " return True " is inside def clause. Not assuming this is resulting in " Syntax error " a. Input a string b. Loop through each character in the string. c. In the loop check the complement of the condition whether that character is UPPER CASE in other words check whether the character is lower case or non-alphabetic character. If lower case or non-alphabetic character is found it returns False. d. Once all the characters are scanned it returns True.	"this Is a test"	TRUE	FALSE	This function doesn't serve the actual functionality	The problem with this logic is it is checking whether each character in the string is not an upper case then returning False. This is resulting in the function returning False when it encounters ' ' or other Non-Alphabetic characters. Thus it will only work for words which a All Caps	
		"THISISATEST"	TRUE	TRUE			if not c.isupper():