

The image shows a Visual Studio Code editor window with a Python file named `Palindrome.py` open. The file contains a function `isPalindrome` that checks if a string is a palindrome after removing non-alphanumeric characters and converting to lowercase. A test case is provided with the string `"race a car"`, which is expected to return `False`.

```
3 clean_s = ''.join(c.lower() for c in s if c.isalnum())
4
5 # Check if the modified string is a palindrome
6 for i in range(len(clean_s) // 2):
7     if clean_s[i] != clean_s[len(clean_s) - 1 - i]:
8         return False
9     return True
10
11 # Test case
12 s = "race a car"
13 print(isPalindrome(s))
14
```

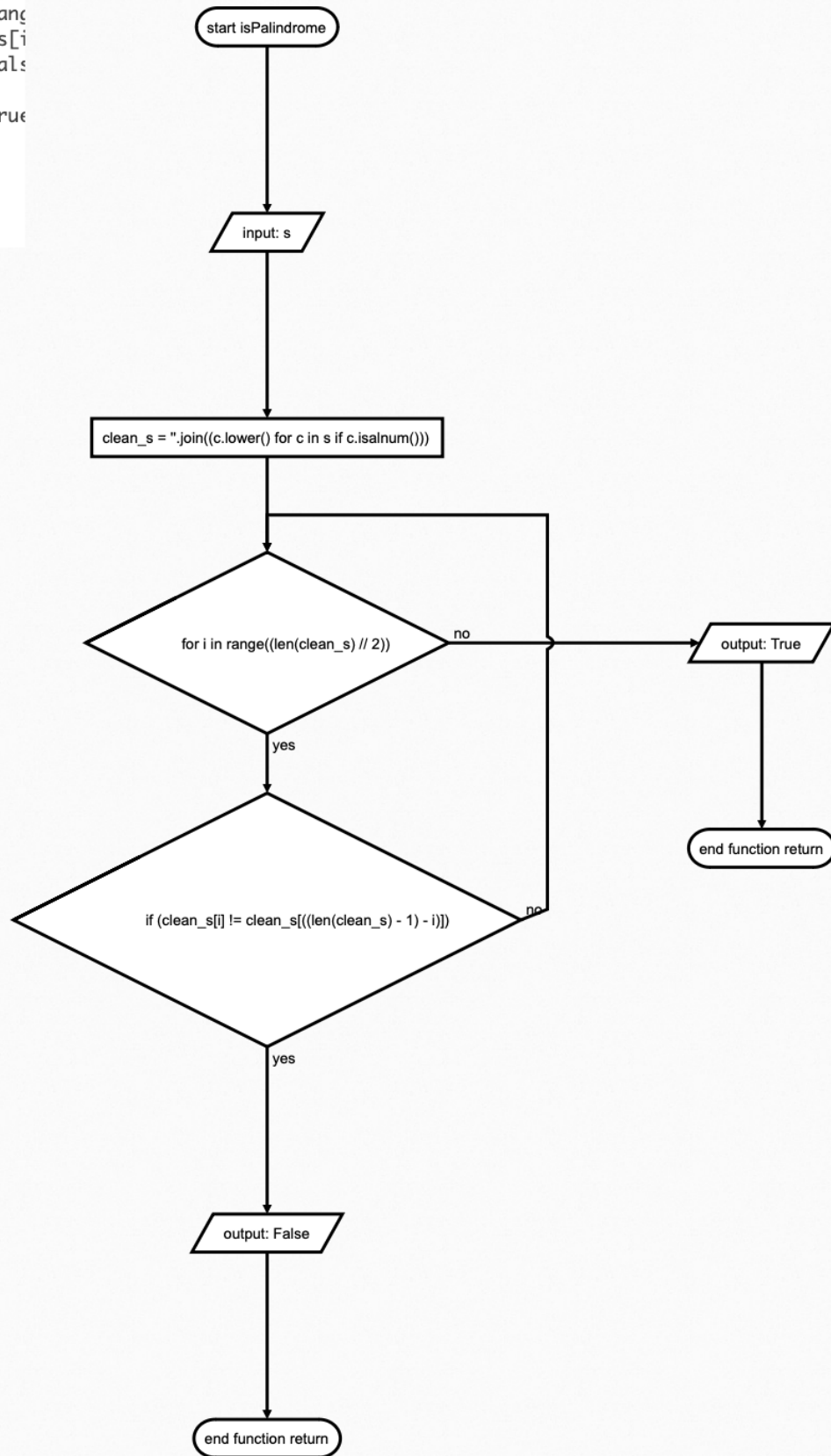
The terminal output shows the execution of the script, confirming that the result is `False`.

```
/usr/local/bin/python3 /Users/rakesh_kasha/Desktop/Palindrome.py
(base) rakesh_kasha@Rakesh-kashas-MacBook-Pro ~ % /usr/local/bin/python
3 /Users/rakesh_kasha/Desktop/Palindrome.py
False
(base) rakesh_kasha@Rakesh-kashas-MacBook-Pro ~ %
```

The status bar at the bottom indicates the current position is Line 14, Column 1, with 4 spaces, using UTF-8 encoding and LF line endings. The Python version is 3.10.7 64-bit.

Flowchart:

join  
and  
s[i]  
als  
rue



## Trace table:

step	s	clean_s	i	clean_s[i] != clean_s[len(clean_s) - 1 - i]	return
1	"race a car"				
2		"race a car"			
3			0		
4				FALSE	
5					TRUE
3			1		
4				FALSE	
5					TRUE
3			2		
4				FALSE	
5					TRUE
3			3		
4				FALSE	
5					TRUE
3			4		
4				TRUE	
5					FALSE

```

1 def isPalindrome(s):
2
3     clean_s = ''.join(c.lower() for c in s if c.isalnum())
4
5
6     for i in range(len(clean_s) // 2):
7         if clean_s[i] != clean_s[len(clean_s) - 1 - i]:
8             return False
9     return True
10
11 # Test case
12 s = "race a car"
13 t = "A man, a plan, a canal: Panama"
14 print(isPalindrome(s))
15 print(isPalindrome(t))
16 print(isPalindrome(""))

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```

/usr/local/bin/python3 /Users/rakesh_kasha/Desktop/Palindrome.py
(base) rakesh_kasha@Rakesh-kashas-MacBook-Pro ~ % /usr/local/bin/python3 /Users/rakesh_kasha/Desktop/Palindrome.py
False
True
True
(base) rakesh_kasha@Rakesh-kashas-MacBook-Pro ~ %

```

Ln 17, Col 1 Spaces: 4 UTF-8 LF Python 3.10.7 64-bit