## 10. Write a program for to check whether a given String is Palindrome or not using recursion

PROGRAM:-

```
def is_palindrome(s):
  s = s.lower().replace(" ", "") # Convert to lowercase and remove spaces
  if len(s) <= 1:
    return True
  else:
    if s[0] == s[-1]:
       return is_palindrome(s[1:-1]) # Recursively check inner substring
    else:
       return False
# Test the function
input_string = "A man a plan a canal Panama"
if is_palindrome(input_string):
  print(f"{input_string} is a palindrome.")
else:
  print(f"{input_string} is not a palindrome.")
output:-
```

```
A man a plan a canal Panama is a palindrome.
```

=== Code Execution Successful ===

Time complexity:-O(n)