from collections import deque

def is\_palindrome\_stack(s):

stack = []

for char in s:

stack.append(char)

for char in s:

if char != stack.pop():

return False

return True

def is\_palindrome\_queue(s):

queue = deque()

for char in s:

queue.append(char)

for char in s:

if char != queue.pop():

return False

return True

choice = input("Enter 1 to check palindrome using Stack, 2 using Queue: ")

string = input("Enter the string: ")

if choice == '1':

if is\_palindrome\_stack(string):

print(f"'{string}' is a palindrome using Stack.")

else:

print(f"'{string}' is not a palindrome using Stack.")

elif choice == '2':

if is\_palindrome\_queue(string):

print(f"'{string}' is a palindrome using Queue.")

else:

print(f"'{string}' is not a palindrome using Queue.")

else:

print("Invalid choice.")

**OUTPUT =**

Enter 1 to check palindrome using Stack, 2 using Queue: 1

Enter the string: level

'level' is a palindrome using Stack