Q.1

ef is\_pallindrome(s):

s=s.replace().lower()

return s==s[::-1]

string=input("enter a string: ")

if is\_pallindrome(string):

print({string}' is a palindrome)

else:

print(f"'{string}'is not a palindrome")d

Q.3

def factorial(num):

if nuym<0:

return "factorial not defined"

result=1

for i in range(1,num+1):

result \*=if

return result

number=int(input("enter a number: "))

print(f"the factorial of{number}is {factorial)(number)}.")

Q.8

def longest\_word(words):

if not words

return"the list is empty"

max\_word=max(words.key=length):

return max\_wordword\_list=input(""enter a list of word: ).split()

max\_length\_word=

longest\_word(words\_list)

print(f"the word with the maximum length is'{max\_length\_word}'")