# ***Find the given string is Symmetrical or Palindrome by slicing half of the length of string***

**Method:1**

**—----------**

class SymmetricalPalindrome:

    def symm\_palin(string):

        half = len(string) // 2

        if len(string) % 2 == 0:

            string1 = string[half:]

            print(string1)

            string2 = string[:half]

            print(string2)

        else:

            half = half + 1

            string1 = string[:half]

            string2 = string[half-1:]

        if string1 == string2:

            print('sym')

        else:

            print('not sym')

        if string1 == string2[::-1]:

            print('palindrome')

        else:

            print('not palindrome')

def main():

    sy\_pa = SymmetricalPalindrome.symm\_palin('geeksoskeeg')

    print(sy\_pa)

if \_\_name\_\_ == '\_\_main\_\_':

    main()

**Method: 2**

**—------------**

class SymmetricalPalindrome:

    def sym\_palin(string):

        half = len(string)//2

        if string[:half:]==string[half] and string[:half:]==string[-1:-half-1:-1]:

            print("both")

        elif string[:half:]==string[half:len(string):]:

            print("symmetric")

        elif string[:half:]==string[-1:-half-1:-1]:

            print("anagram palindrome")

        else:

            print("not a palindrone and not a symmetric")

def main():

    result = SymmetricalPalindrome.sym\_palin("khoiohk")

if \_\_name\_\_ == '\_\_main\_\_':

    main()