1. To Calculate the Length of a String python

string = "jumpwhere"

length = len(string)

print("Length of the string is:", length)

2. Count Characters in a String

string = "jumpwhere"

char\_frequency = {}

for char in string:

char\_frequency[char] = char\_frequency.get(char, 0) + 1

print(char\_frequency)

3. First 2 and Last 2 Characters

def first\_last\_chars(string):

if len(string) < 2:

return ""

else:

return string[:2] + string[-2:]

result = first\_last\_chars("mangalore")

print("Result:", result)

4. Replace Occurrences of First Character

string = "restart"

first\_char = string[0]

modified\_string = first\_char + string[1:].replace(first\_char, '$')

print("Modified String:", modified\_string)

5. Swap First Two Characters

str1 = "abc"

str2 = "xyz"

new\_str = str2[:2] + str1[2:] + " " + str1[:2] + str2[2:]

print("Result:", new\_str)

6. Add 'ing' or 'ly' to the End of a String

def modify\_string(string):

if len(string) < 3:

return string

elif string.endswith("ing"):

return string + "ly"

else:

return string + "ing"

result = modify\_string("abc")

print("Result:", result)

7. Replace 'not'...'poor' with 'good'

def replace\_substring(string):

not\_index = string.find("not")

poor\_index = string.find("poor")

if not\_index != -1 and poor\_index != -1 and not\_index < poor\_index:

return string[:not\_index] + "good" + string[poor\_index + 4:]

return string

result = replace\_substring("The lyrics is not that poor!")

print("Result:", result)

8. Length of Longest Word in a List

def longest\_word\_length(words):

return max(map(len, words))

words = ["apple", "banana", "watermellon", "mango"]

print("Length of the longest word:", longest\_word\_length(words))

9. Remove nth Index Character

def remove\_nth\_char(string, n):

return string[:n] + string[n+1:]

result = remove\_nth\_char("example", 2)

print("Result:", result)

10. Unique Words in Sorted Form

words = "red,white,black,red,green,black"

unique\_words = sorted(set(words.split(',')))

print("Unique words:", ", ".join(unique\_words))

11. Reverse String if Length is Multiple of 4

def reverse\_string\_if\_multiple\_of\_4(string):

if len(string) % 4 == 0:

return string[::-1]

return string

result = reverse\_string\_if\_multiple\_of\_4("abcd")

print("Result:", result)

12. Uppercase if Contains 2 Uppercase Characters in First 4

def uppercase\_if\_two\_uppercase(string):

if sum(1 for char in string[:4] if char.isupper()) >= 2:

return string.upper()

return string

result = uppercase\_if\_two\_uppercase("aBCdEf")

print("Result:", result)

13. Check if String Starts with Specified Characters

string = "example"

specified\_chars = "ex"

if string.startswith(specified\_chars):

print("String starts with specified characters.")

else:

print("String does not start with specified characters.")

14. Print Floating Numbers up to 2 Decimal Places

number = 3.1415926

print("Formatted Number: {:.2f}".format(number))

15. Count Repeated Characters in a String

string = 'jumpwhere\_internship'

char\_count = {}

for char in string:

char\_count[char] = char\_count.get(char, 0) + 1

for char, count in char\_count.items():

if count > 1:

print(char, count)

16. Print Index of Characters in a String

string = "jumpwhere"

for index, char in enumerate(string):

print("Index:", index, "Character:", char)

17. Convert String to List

string = "example"

string\_list = list(string)

print("List from string:", string\_list)

18. Swap Comma and Dot in a String

string = "92.999,23"

swapped\_string = string.translate(str.maketrans(',.', '.,'))

print("Swapped String:", swapped\_string)

19. Find Smallest and Largest Word

string = "jumpwhere internship"

words = string.split()

s\_word = min(words, key=len)

l\_word = max(words, key=len)

print("Smallest word:", s\_word)

print("Largest word:", l\_word)

20. Remove Consecutive Duplicates

def remove\_con\_duplicates(string):

result = []

for char in string:

if not result or char != result[-1]:

result.append(char)

return ''.join(result)

result = remove\_con\_duplicates("aaabbbcccdddeeefff")

print("Result:", result)