# python-programming-lab-4

January 28, 2024

```
Python Programming - 2101CS405
Name - Lakhani Ritesh
EnrollmentNo - 22010101099
Date - 4-01-2024
Lab - 4
```

# 1 String

1.0.1 01) WAP to check given string is palindrome or not.

```
[4]: str = input("Enter String")
  reversed_str = str[::-1];

if str == reversed_str:
    print("String is Palindrome")
  else:
    print("String is not palindrome")
```

String is not palindrome

1.0.2 02) WAP to reverse the words in given string.

```
[10]: str_input = input("Enter a string: ")

words = str_input.split()

reversed_words = ' '.join(reversed(words))

print("Reversed Words:", reversed_words)
```

Reversed Words: Ritesh is name My

#### 1.0.3 03) WAP to remove ith character from given string

```
[11]: str = input("Enter String")
    a = int(input("Enter the index of character to remove:"));

if str=="":
    print(f"String is Empty")
    else:
    modified_string = str[:a]+str[a+1:]
    print(f"Original String: {str}")
    print(f"modified String:{modified_string}")
```

Original String: ritesh modified String:riesh

#### 1.0.4 04) WAP to find length of String without using len function.

```
[13]: str = input("Enter String: ");
  count = 0

for i in str:
    count = count + 1
  print(f"Enter String:{str}")
  print(f"Length of String: {count}")
```

Enter String:Ritesh Length of String: 6

#### 1.0.5 05) WAP to print even length word in string.

```
[15]: str = input("Enter String:");
words = str.split();

print("Even Length Words in String:");
for word in words:
    if len(word)%2==0:
        print(word);
```

Even Length Words in String: Meet Ritesh Prit

#### 1.0.6 06) WAP to count numbers of vowels in given string.

```
[17]: str = input("Enter String:");

vowel = {'a','e','i','o','u'}

count = 0

for i in str.lower():
   if i in vowel:
      count = count + 1

print(f"Number Of vowels in String: {count}")
```

Number Of vowels in String: 0

### 1.0.7 07) WAP to convert given array to string.

```
[14]: my_array = ['apple', 'banana', 'cherry', 'date']

result_string = ' '.join(my_array)

print("Resulting String:", result_string)
```

Resulting String: apple banana cherry date

#### 1.0.8 01) WAP to find out duplicate characters in given string.

```
[30]: str_input = input("Enter String: ")
    print("String: ",str_input)

    char_count = {}

    for ch in str_input:
        if ch in char_count:
            char_count[ch]+=1
        else:
            char_count[ch]=1

    print(char_count)
    for a in char_count:
        if char_count.get(a)>1:
            print(a)
```

```
String: Ritesh Lakhani {'R': 1, 'i': 2, 't': 1, 'e': 1, 's': 1, 'h': 2, ' ': 1, 'L': 1, 'a': 2, 'k': 1, 'n': 1}
```

i h a

#### 1.0.9 02) WAP to capitalize the first and last character of each word in a string.

RitesH ShubhaM HarD HarsH ShruT

#### 1.0.10 03) WAP to find Maximum frequency character in String.

The character 'h' has the maximum frequency of 5 times.

# 1.0.11 04) WAP to find Minimum frequency character in String.

The character 't' has the minimum frequency of 1 times.

## 1.0.12 05) WAP to check if a given string is binary string or not

```
[8]: str_input = input("Enter a string: ")

valid_binary = True

for char in str_input:
    if char not in '01':
        valid_binary = False
        break

if valid_binary:
    print("The entered string is a valid binary string.")
else:
    print("The entered string is not a valid binary string.")
```

The entered string is not a valid binary string.