

SUMANTH S
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PYTHON LAB 8: STRING

“String is a group or sequence of characters that enclosed in a double quote.”

1. Take u r name from the keyboard and reverse and display the result.

```
name = input("Enter your name :") # taking name from user
reverse = name[::-1] # reversing the name by giving negative index
print("The reverse of a given name is :",reverse) # displaying the reverse of the name
```

Output:

Enter your name :SUMANTH
The reverse of a given name is : HTNAMUS

2. Count and display the vowel in the u r name

```
name = "SUMANTH" # given name as sumanth
vowels = "AaEeIiOoUu" # taking vowels --> a,e,i,o,u,A,E,I,O,U
vowel_count = sum(1 for char in name if char in vowels) # checking number of vowels present
in the given name SUMANTH
display_vowel = [char for char in name if char in vowels] # checking the vowels present in the
given name SUMANTH
print("The given name is :", name)
print("The number of vowels in ",name, " is :",vowel_count) # displaying the count of vowels
print("The vowels present in ",name, " is :", display_vowel) # displaying the of vowels
```

Output:

The given name is : SUMANTH
The number of vowels in SUMANTH is : 2
The vowels present in SUMANTH is : ['U', 'A']

3. check whether the input string is Palindrome or not.

```
input_string = input("Enter a string :") # taking input_string from user
if input_string == input_string[::-1]: # checking if the given string is equals to reverse of the
string.
    print("The given input String ",input_string, " is palindrome") # displaying the given string is
palindrome
else:
    print("The given input String ",input_string, " is not palindrome")# displaying the given string
is not palindrome
```

Output:

```
Enter a string :MADAM
The given input String MADAM is palindrome
Enter a string :sumanth
The given input String sumanth is not palindrome
```

4. Take the input string from the user and the check it's contains only numeric.

```
input_string = input("Enter a string :") # taking input string from user
if input_string.isdigit(): # checking the string contains only numbers by using isdigit() function
    print("The input string contains only numeric characters.")
else:
    print("The input string contains non-numeric characters.")
```

Output:

```
Enter a string :sumanth
The input string contains non-numeric characters.
Enter a string :1707
The input string contains only numeric characters.
```