PYTHON LAB – 8

STRINGS

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

```
Name = input("Enter your name : ") #Enter your name
reverse_string = "" #Taking an empty variable
for char in Name:
  reverse_string = char + reverse_string #Storing the
characters of name for last
print("Before reversing : ",Name )
print("After reversing : ",reverse_string) #printing the
reversed string
```

OUTPUT :

```
Enter your name : Keerthana KR
Before reversing :  Keerthana KR
After reversing :  RK anahtreeK
```

(OR)

```
Name = input("Enter your name : ") #Enter your name
reverse_string = Name[::-1] #Calculating reverse string
using indexing format
print("Before reversing : ",Name )
print("After reversing : ",reverse_string) #printing the
reversed string
```

OUTPUT :

```
Enter your name : Keerthana KR
Before reversing :  Keerthana KR
After reversing :  RK anahtreeK
```

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

```
Name = input("Enter your name : ") #Enter your name
Vowels = {'a', 'e', 'i', 'o', 'u', 'A', 'E', 'I', 'O',
'U'} #Assinging vowels to variable vowels
Count =  0 #Intializing Count variable and setting value
to 0
Vowels_list = [] #initializing empty list
for char in Name: #iterating each character in name
  if(char in Vowels):#Checking condition is vowels
present in name
    Count+=1 #if condition is true , increase count value
by 1
    Vowels_list.append(char) #Appending vowels present in
name to the list
print("The number of vowels present is : ",Count)
#Printing number of vowels
print(f"Vowels present in name are :",',
'.join(Vowels_list)) #Printing the vowels present in name
```

OUTPUT :

```
Enter your name : Keerthana KR
The number of vowels present is :  4
Vowels present in name are : e, e, a, a
```

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

```
Str1 = input("Enter a string: ") #Takes user input
Str2 = ''.join(char.lower() for char in Str1 if
char.isalnum()) #remove spaces and non alphanumeric
characters and convert string to lowercase

if (Str2 == Str2[::-1]): #Checks condition whether string
and reverse string equals
  print(f"{Str1} is a palindrome.") #Print this statement
if true
else:
  print(f"{Str1} is not a palindrome.")  #Print this
statement if False
```

OUTPUT :

```
Enter a string: Madam, I'm Adam
Madam, I'm Adam is a palindrome.
```

```
Enter a string: Keerthana
Keerthana is not a palindrome.
```

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

```
Str = input("Enter string : ") #Takes user input
if(Str.isdigit()): #Checks if string contains only
numeric
  print(f"{Str} contains only numeric.") #if condtion is
true prints this statement
else:
  print(f"{Str} does not contains only numeric.") #if
condtion is false prints this statement
```

OUTPUT :

```
Enter string : 394195
394195 contains only numeric.

Enter string : Abc123
Abc123 does not contains only numeric.
```