python-programming-lab-4

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Python Programming - 2301CS404

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Lab - 4

1 String

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

[2]:
```
str = input("Enter String ")
temp = str[::-1]
if temp == str:
    print(f"{str} is palindrome")
else:
    print(f"{str} is not palindrome")
```

```
Enter String  aba
```

```
aba is palindrome
```

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

[6]:
```
str = input("Enter String ")
temp = str.split(" ")
ans = temp[::-1]
print(ans)
```

```
Enter String  neel gohel
```

```
['gohel', 'neel']
```

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

[7]:
```
str = input("Enter String ")
index = int(input("Enter index "))
temp = str[:index:] + str[index+1::]
print(temp)
```

```
Enter String  neel
Enter index  1
```

```
nel
```

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

[8]:
```
str = input("Enter String ")
count = 0
for i in str:
    count += 1
print(f'Length of {str} is {count} ')
```

```
Enter String  neel
```

```
Length of neel is 4
```

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

[9]:
```
str = input("Enter String ")
temp = str.split(" ")
for i in temp:
    if(len(i)%2==0):
        print(i)
```

```
Enter String  neel gohel
```

```
neel
```

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

[10]:
```
str = input("Enter String ")
count=0
for i in str:
    if(i=='a' or i=='e' or i=='o' or i=='i' or i=='u'):
        count+=1
print(count)
```

```
Enter String  neel
```

```
2
```

1.0.7 07) WAP to capitalize the first and last character of each word in a string.

[12]:
```
str = input("Enter String ")
str = str.title()
result = ""
temp = str.split(" ")
for word in temp:
    result = result + word[:-1] + word[-1].upper()+" "
print(result)
```

```
Enter String  neel gohel darshan
```

```
NeeL GoheL DarshaN
```

1.0.8 08) WAP to convert given array to string.

[15]:
```
arr = ['Darshan' , 'University' , 'Rajkot']
ans = " ".join(arr)
print(ans)
```

```
Darshan University Rajkot
```

1.0.9 09) Check if the password and confirm password is same or not.

1.0.10 In case of only case's mistake, show the error message.

[19]:
```
password = input("Enter your password: ")
confirmPass = input("Confirm your password: ")

if password == confirmPass:
    print("Password confirmed successfully!")
else:
    if password.lower() == confirmPass.lower():
        print("Error: Passwords do not match due to case sensitivity.")
    else:
        print("Error: Passwords do not match.")
```

```
Enter your password:  neel
Confirm your password:  neel
```

```
Error: Passwords do not match.
```

1.0.11 10) : Display credit card number.

1.0.12 card no. : 1234 5678 9012 3456

1.0.13 display as : **** **** **** 3456

[22]:
```
card_number = "1234 5678 9012 3456"

masked_card_number = "**** **** **** " + card_number[-4:]

print("Displayed card number:", masked_card_number)
```

```
Displayed card number: **** **** **** 3456
```

1.0.14 11) : Checking if the two strings are Anagram or not.

1.0.15 s1 = decimal and s2 = medical are Anagram

[25]:
```
s1 = "decimal"
s2 = "medical"

if len(s1) == len(s2):
    if sorted(s1) == sorted(s2):
        print(f"{s1} and {s2} are anagrams.")
    else:
        print(f"{s1} and {s2} are not anagrams.")
else:
    print(f"{s1} and {s2} are not anagrams.")
```

```
decimal and medical are anagrams.
```

1.0.16 12) : Rearrange the given string. First lowercase then uppercase alphabets.

1.0.17 input : EHlsarwiwhtwMV

1.0.18 output : lsarwiwhtwEHMV

[26]:
```
input_string = "EHlsarwiwhtwMV"

lowercase_letters = [char for char in input_string if char.islower()]
uppercase_letters = [char for char in input_string if char.isupper()]

output_string = ''.join(lowercase_letters) + ''.join(uppercase_letters)

print("Rearranged string:", output_string)
```

```
Rearranged string: lsarwiwhtwEHMV
```