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# Python Programming - 2101CS405

Lab - 4

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# **String**

```
In [ ]: # string mehods
        # append() Adds an element at the end of the list
        phones= ['iphone', 'samsung', 'mi']
        phones.append("oppo")
        # clear() Removes all the elements from the list
        phones = ['iphone', 'samsung', 'mi', 'oppo']
        phones.clear()
        # copy() Returns a copy of the list
        phones = ['iphone', 'samsung', 'mi', 'oppo']
        x = phones.copy()
        # count() Returns the number of elements with the specified value
        # extend() Add the elements of a list (or any iterable), to the end of the
        # index() Returns the index of the first element with the specified value
        # insert() Adds an element at the specified position
        # pop() Removes the element at the specified position
        # remove() Removes the first item with the specified value
        # reverse() Reverses the order of the list
        #sort()
```

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

```
In [3]: str=input("Enter string to check palindrome")
    newStr=str[::-1]
    if(str.lower()==newStr.lower()):
        print(f"{str} is palindrome")
    else:
        print(f"{str} is not palindrome")
```

Enter string to check palindromemadam madam is palindrome

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

```
In [25]: str=input("Enter string ")
    listOfStr=str.split(" ")
    temp=""
    for i in listOfStr:
        newStr=i[::-1]
        temp+=newStr+" "
    print(temp)
```

Enter string how are you woh era uoy

# 03) WAP to remove ith character from given string

```
In [30]: str=input("Enter String ")
    n=int(input("Enter number to remove cherecter "))
    print(str.replace(str[n],""))

Enter String sachin
    Enter number to remove cherecter 1
    schin
```

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

```
In [34]: str=input("Enter String ")
    count=0
    for i in str:
        count=count+1
    print(f"{str} length is {count}")
Enter String sachin
```

sachin length is 6

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

```
In [39]: str=input("Enter String ")
  temp=str.split()
  for i in range(0,len(temp)):
      if(len(temp[i])%2==0):
           print(temp[i],end=" ")
```

Enter String sach patadiyaa sach

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

# 07) WAP to convert given array to string.

```
In [47]: list=["sachin","patadiya"]
    str=""
    str=" ".join(list)
    print(str)
```

sachin patadiya

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

Enter string to check duplicate cherecter :saachinn
duplicate cherecter is : {'a', 'n'}

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

```
In [59]: temp=input("Enter String ")
    newStr=""
    list=temp.split(" ")
    for i in list:
        i=i.replace(i[0],i[0].upper())
        i=i.replace(i[-1],i[-1].upper())
        newStr=newStr+i+" "
    print(newStr)
```

Enter String sachin patadiya SachiN PAtAdiyA

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

Enter string to check Maximum frequency character: sachinpatadiya The character with the maximum frequency in the string is 'a' with frequency 4.

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

```
In [5]: def min_frequency_char(input_string):
    char_frequency = {}

    for char in input_string:
        if char in char_frequency:
            char_frequency[char] += 1
        else:
            char_frequency[char] = 1

    min_char = min(char_frequency, key=char_frequency.get)
    return min_char

input_string =input("Enter String to check Minimum frequency character : 'result = min_frequency_char(input_string)
    print(f"The character with minimum frequency is: {result}")
```

Enter String to check Minimum frequency character: sachinpatadiya The character with minimum frequency is: s

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

```
In [11]: def is_binary_string(input_string):
    valid_digits = {'0', '1'}

    for char in input_string:
        if char not in valid_digits:
            return False

    return True

str=input("Enter string to check binery or not : ")
if is_binary_string(str):
    print(f"{str} is a binary string.")
else:
    print(f"{str} is not a binary string.")
```

Enter string to check binery or not : 010101010 010101010 is a binary string.