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In [1]: s1="trupti"
        print("original string :",s1)
        s=""
        for i in s1:
            s+=i
        print("reverse string :",s)

original string : trupti
reverse string : itputr

In [2]: s="good evening"
        #s[start:end]
        s[2:7]

Out[2]: 'od ev'

In [3]: s[:2]
        #alternate character

Out[3]: 'go vnn'

In [5]: s[5:]

Out[5]: 'evening'

In [6]: s[5::]

Out[6]: 'evening'

In [7]: s[-1::]

Out[7]: 'g'

In [8]: s[::-1]

Out[8]: 'gnineve doog'

In [9]: s[len(s)-1::-1]

Out[9]: 'gnineve doog'

In [10]: len(s)

Out[10]: 12

In [12]: s[-1::-len(s)-1:-1]

Out[12]: 'gnineve doog'

In [14]: s[3:6]

Out[14]: 'd e'

In [16]: s="Hello, how are you"

In [17]: s2=s.title()

In [18]: s2

Out[18]: 'Hello, How Are You'

In [19]: s.upper()

Out[19]: 'HELLO, HOW ARE YOU'

In [20]: s.lower()

Out[20]: 'hello, how are you'

In [21]: n="Hello"
        n.lower()

Out[21]: 'hello'

In [22]: n.swapcase()

Out[22]: 'hELLO'

In [23]: n.find('s')

Out[23]: -1

In [24]: s.count('l')

Out[24]: 2

In [25]: s='hello'
        s.isalpha()

Out[25]: True

In [26]: s.islower()

Out[26]: True

In [27]: s.replace('h','H')

Out[27]: 'Hello'

In [35]: s="Hello, how are you"
        s.replace('H','h')

Out[35]: 'hello, how are you'

In [38]: s.replace('h','H',2)

Out[38]: 'Hello, How are you'

In [39]: s[len(s)-1]

Out[39]: 'u'

In [40]: l1=s.split()
        print(l1)
        print(type(l1))

['Hello','','how','are','you']
<class 'list'>

In [41]: l1=s.split(',')
        print(l1)
        print(type(l1))

['Hello', ' 'how are you']
<class 'list'>

In [42]: 'are' in s

Out[42]: True

In [43]: "Hello" *2

Out[43]: 'HelloHello'

In [45]: # Star pattern programs
        row=int(input("Enter rows :"))
        for i in range(1,row+1):
            print('+'*i)

Enter rows :6
*
**
***
****
*****
*****

In [88]: row=int(input("Enter rows :"))
        for i in range(1,row+1):
            print('abcde'*i)

Enter rows :5
abcde
abcdeabcde
abcdeabcdeabcde
abcdeabcdeabcdeabcde
abcdeabcdeabcdeabcdeabcde

In [49]: chr(65)

Out[49]: 'A'

In [51]: a=34
        b=54
        c=a+b
        print("addition of",a,"and",b,"is",c)
        s1="addition of {0} and {1} is {2} "
        print(s1.format(a,b,c))

addition of 34 and 54 is 88
addition of 34 and 54 is 88

In [52]: '#'.join("trupti")

Out[52]: 't#r#u#p#t#i#'

In [53]: ','.join("trupti")

Out[53]: 't,r,u,p,t,i'

In [55]: import string
        print("Alphabet from a-z:")
        for letter in string.ascii_lowercase:
            print(letter,end=" ")

Alphabet from a-z:
a b c d e f g h i j k l m n o p q r s t u v w x y z

In [59]: import string
        print("Alphabet from a-z:")
        for letter in string.ascii_uppercase:
            print(letter,end=" ")

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

In [4]: i=1
        while i<=26:
            print(chr(i+64),chr(i+96), end=" ")
            i+=1

A aB bC cD dE eF fG gH hI iJ jK kL lM mN nO oP pQ qR rS sT tU uV vW wX xY yZ z

In [74]: s1="trupti"
        s1.ljust(15,'*')

Out[74]: 'trupti*****'

In [76]: s1="trupti"
        s1.rjust(15,'-')

Out[76]: '-----trupti'

In [91]: sz=3
        print(sz)
        m=int(2*sz-2)
        print(m)

3
4

In [14]: # WAP to check whether given string is palindrome
        string="Python"
        if (string==string[::-1]):
            print("The string is a palindrome")
        else:
            print("The string is not a palindrome")

The string is not a palindrome

In [12]: # WAP to count number of vowels in given string
        string ="Hello world"
        vowels = 0

        for i in string:
            if(i == 'a' or i == 'e' or i == 'i' or i == 'o' or i == 'u' or i == 'A'
               or i == 'E' or i == 'I' or i == 'O' or i == 'U'):
                vowels = vowels + 1
        print("Total Number of Vowels in this String = ", vowels)

Total Number of Vowels in this String = 3

In [8]: # WAP to occureces of given char from string
        string=input("Enter the string : ")
        char=input("Enter the character : ")
        count=0
        for i in string:
            if i==char:
                count+=1
        print("occurences : ",count)
        pos=string.find(char)
        print(str(pos))

Enter the string : hello
Enter the character : l
occurences : 2
2

In [16]: # WAP to accept 2 string and check whether they are anagram or not (eg.MARY ARMY)
        def check(s1, s2):
            if(sorted(s1)==sorted(s2)):
                print("The strings are anagrams.")
            else:
                print("The strings are not anagrams.")

        s1 ="MARY"
        s2 ="ARMY"
        check(s1, s2)

The strings are anagrams.

In [27]: # WAP to reverse each word in a given Python is fun-->nohtyP si nuf
        print("Enter the sentence : ",str)
        str = "Python is fun"
        words = str.split()
        newStr = " "

        for w in words :
            row = " "
            for char in w :
                row = char + row
            newStr += row + " "

        print("Reverse sentence : ",newStr)

Enter the sentence : Python is fun
Reverse sentence : nohtyP si nuf

In [49]: # WAP to find frequency of each character in given string
        string="Hello"
        print("Given string : ",string)
        str=list(string)
        strlist=[]
        print("Frequency of each character is : ")
        for j in str:
            if j not in strlist:
                strlist.append(j)
                count=0
                for i in range(len(str1)):
                    if j==str1[i]:
                        count+=1
            print("{},{}".format(j,count))

Given string : Hello
Frequency of each character is :
H,1
e,1
l,2
l,2
o,1

In [5]: # WAP to extract first alphabet from given sentence to form a new word
        string="Hello"
        s=string[0:1]
        print(s)

H

In [52]: # Write a python program to count the number of character in a string
        string = input("Enter the String : ")
        total = 0

        for i in string:
            total = total + 1
        print("Total Number of Characters in this String = ", total)

Enter the String : Have a nice day
Total Number of Characters in this String = 15

In [78]: # Write a python program to remove the characters which have odd index values of a given string
        string1 = "Hello"
        print("Given string : ",string1)
        string2=""
        print("String after removing characters on odd position : ")
        for i in range(len(string1)):
            if i%2 !=0:
                string2 = string2 + string1[i]
            print(string2)

Given string : Hello
String after removing characters on odd position :
e
el

In [15]: # Write a python program to swap cases or toggle cases of a given string
        string = "Trupti"
        string1 = string.swapcase()

        print("Original String : ",string)
        print("String After Toggling Case : ",string1)

Original String : Trupti
String After Toggling Case : trupti

In [2]: row=5
        for i in range(5,0,-1):
            for j in range(65,65+i):
                print(chr(j),end=" ")
            print("\n")

A B C D E
A B C D
A B C
A B
A

In [3]: i=1
        while i<=26:
            print(chr(i+64)+chr(i+96),end=" ")
            i+=1

Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz

In [4]: # Write a program to remove all occurrences of given char from string
        string="Hello"
        char=input("Enter the character : ")
        change=string.replace(char," ")
        print(change)

Enter the character : l
He o

In [7]: # Write a program to replace every character by it next subsequent character
        string="Have a nice day"
        string1= " "
        for i in range(0,len(string)):
            string1+=chr(ord(string[i])+1)
        print("Given string : ",string)
        print("replace : ",string1)

Given string : Have a nice day
replace : Ibwf!b!ojdf!ebz

In [9]: # Write a python program to count the occurrences of each word in a given sentence
        string="Have a nice day"
        print("Enter the given string : ",string)
        string2=input("Enter the word : ")
        count=string.count(string2)
        print("The count is : ",count)

Enter the given string : Have a nice day
Enter the word : a
The count is : 3

In [ ]:
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