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python-string Assignment

Q1)# Write a program which accepts a sentence from the
user and print that sentence.
Input: My name is
Output: My name is
```
str1=input("Enter the string:")
print(str1)
```

Q2)# Write a program which accepts a string from the user
which contains characters from 'b' to 'y'.
Input: mn jn kn kazfd
Output: mn jn kn kfd
```
str1=input("Enter a string")
for x in str1:
    if x>="b" and x<="y":
     print(x,end="")
```

Q3)# Write a program which accepts sentences from the user
and print a number of small letters, capital letters and digits from that
sentence.
Input: abcDE 5Glm1 O
Output: Small:5 Capital: 4 Digits: 2
```
str1=input("Enter the string: ")
small=0
capital=0
digit=0
for x in str1:
    if x>="a" and x<"z":
        small+=1
    elif x>="A" and x<="Z":
        capital+=1
    elif ord(x)>=48 and ord(x)<=57:
        digit+=1
print(f"Small:{small} capital:{capital} digit:{digit}")
```

Q4)# Write a program which accepts sentences from the user
and print length of that sentence (Implement strlen()).
Input: India is my
Output: 11
```
str1=input("Enter the string: ")
count=0
for x in range(len(str1)):
    count+=1
print(count)
```

```
Q5)# Write a program which accepts sentences from the user
# and print a number of white spaces from that sentence.
# Input: In my company
# Output: 2
str1=input("enter the string: ")
count=0
for x in str1:
    if x==" ":
      count+=1
print(count)
```

```
Q6)# Write a program which accepts sentences from the user
# and prints a number of words from that sentence.
# Input: In my company
# Output: 3
str1=input("Enter the string: ")
count=0
for x in str1:
  if x==" ":
    count+=1
    continue
print(count+1)
```

```
Q7)# Write a program which accepts sentences from the user
# and print a number of words of even and odd length from that
# sentences
str1=input("Enter the string: ")
start=0
even=0
odd=0
str1=str1+" "
for x in range(len(str1)):
    c=str1[x]
    if c==" ":
        word=str1[start:x]
        length=len(word)
        start=x+1
        if length%2==0:
            even+=1
        else:
            odd+=1
print("even",even)
print("odd",odd)
```

```
Q8)# Write a program which accepts sentences from the user
# and prints the last word from that sentence.
str1=input("Enter the strting: ")
new_string=" "
length=len(str1)
for x in range(length-1,0,-1):
    if str1[x]==" ":
        print(new_string[::-1])
```

```
        break
    else:
        new_string=new_string+str1[x]
```

```
Q9)# Write a program which accepts sentences from user and
# position from user and print the word at that position.
# Input: is my he she
# Position: 3
# Output: he
from turtle import position


str1=input("Enter string: ")
start=0
count=0
str1=str1+" "
list=[]
for x in range(len(str1)):
    count=count+1
    if str1[x]==" ":
        list.append(str1[start:count])
        start=count
position=int(input("Enter the position of word that you want to print: "))
print("your required word is:",list[position+1])
```

```
Q10)#  Write a program to convert the string from upper case to
# lower case (Implement strlwr()).
# Input: DevIce DriVer
# Output: device driver
str=input("Enter the string: ")
str2=" "
for x in str:
    if x>="A" and x<="Z":
        print(chr(ord(x)+32),end="")
    else:
        print(x,end="")
print()
```

```
Q11)# Write a program to convert the string from lowercase to
# uppercase (Implement strupr()).
# Input: DevIce DriVer
# Output: DEVICE DRIVER
str1=input("Enter the string: ")
for x in str1:
    if x>="a" and x<"z":
        print(chr(ord(x)-32),end="")
    else:
        print(x,end="")
print()
```

```
Q12)# Write a program which toggles the case of a string.
# Input: DevIce DriVer
# Output: dEVICE dRIvER
str1=input("Enter the string: ")
for x in str1:
    if x>="a" and x<="z":
        print(chr(ord(x)-32),end="")
    elif x>="A" and x<="Z":
         print(chr(ord(x)+32),end="")
    else:
        print(x,end="")
print()
```

```
Q13)# Write a program to check whether given strings are
# Anagram strings or not.
# Input: abccd cbcda
# Output: Strings are anagram
str1=input("Enter the string1: ")
str2=input("Enter the string2: ")
notfound=0
if len(str1)==len(str2):
    for i in range(len(str1)):
        found=0
        for j in range(len(str2)):
            if str1[i]==str2[j]:
                found=1
                break
        if found==0:
            nofound=1
            break
    if notfound==1:
        print("not anagram")
    else:
        print("anagram")
else:
    print("not anagram")
#another method to find anagram of string
# sortes_string1=sorted(str1)
# sortes_string2=sorted(str2)
# if sortes_string1==sortes_string2:
#     print("anagram String:")
```

```
Q14)# vWrite a program which accepts a string from the user and
# copy that string into some other string (Implement strcpy()).
str1=input("Enter the string: ")
str2=" "
for x in str1:
    str2=str2+x
print(str2)
```

```
Q15)# . Write a program which accepts strings from the
# user and copy first N characters into some destination string
# (Implement strncpy())
# Input: India is my Country
# N : 8
# Output: India is
str=input("Enter the string: ")
length=int(input("Enter the length that you want to print from string: "))
str2=" "
for x in range(length):
    str2=str2+str[x]
print(str2)
```


```
Q16)# Write a program which accepts strings from the user and
# accept number N then copy the last N character into some other
# string.
# Input: India is my
# N : 5
# Output: is my
str1=input("Enter the string: ")
n=int(input("Enter the last number of char that you want to copy in another
string: "))
str2=""
length=len(str1)
for x in range(length-n,length):
    str2=str2+str1[x]
print(str2)
```


```
Q17)#  Write a program which accepts two strings from the user
# and appends the second string after the first string(Implement strcat()).
# Input: FirStr SecStr
# Output: FirStrSecStr
str1=input("Enter first string: ")
str2=input("Enter second string: ")
for x in str2:
    str1=str1+x
print(str1)
```


```
Q18)# Write a program which accepts two strings from the
# user and appends N characters of second string after first
# string(Implement strncat()).
# Input: FirStr SecStr
# N : 4
# Output: FirStrSecS
str1=input("Enter the first string: ")
str2=input("Enter the second string: ")
n=int(input("Enter the number of char from second string for append in first
string: "))
```

```python
for x in range(n):
    str1=str1+str2[x]
print(str1)
```


Q19)# Write a program which accepts two strings from the user
and compares two strings. If both strings are equal then return 0
otherwise return difference between first mismatch character
(Implement strcmp()).
Input: FirStr FirStr
Output: Both strings are equal.

```python
str1=input("Enter the first string: ")
str2=input("Enter the second string: ")
if str1==str2:
    print("Both string are equal because difference is:
",abs(ord(str1[0])-ord(str2[0])))
else:
    print("Both string are not equal because difference is:
",abs(ord(str1[0])-ord(str2[0])) )
```


Q20)# Write a program which accepts two strings from the user
and compares only first N characters of two strings. If both strings are
equal till first N characters then return 0 otherwise return difference
between first mismatch character (Implement strncmp()).
Input: FirStr FirNew
N : 3
Output: Both strings are equal.
```python
str1=input("Enter the first string: ")
str2=input("Enter the second string: ")
n=int(input("Enter the number of char that you want to compare from both string:
"))
str1=str1[:n]
str2=str2[:n]
if str1==str2:
    print("Both are equal string")
else:
    print("Both are not equal string")
```


Q21#Write a program which accepts two strings from the user
and compare two strings without case sensitivity. If both strings are
equal then return 0 otherwise return difference between first mismatch
character (Implement stricmp()).
Input: FirStr FIRStR
Output: Both strings are equal.
```python
str1=input("Enter the first string: ")
str2=input("Enter the second string: ")
str3=""
str4=""
```

```python
for x in range(len(str1)):
    if str1[x]>="A" and str1[x]<="Z":
        a=chr(ord(str1[x])+32)
        str3=a

    else:
        str3=str1[x]

for y in range(len(str2)):
    if str2[y]>="A" and str2[y]<"Z":
        a=chr(ord(str2[y])+32)
        str4=a
    else:
        str4=str2[y]
if str3==str4:
    print("Both are equal string")
else:
    print("Both are not equal string")
```

```python
Q22)# Write a program which accepts string from the user and
# then reverse the string without taking another string (Implement
# strrev()).
# Input: Hello World
# Output: dlroW olleH
str1=input("Enter the string: ")
for x in range(1,len(str1)+1):
    print(str1[-x],end="")
print()
```

```python
Q23)# Write a program which accepts string from the user and
# then reverse the string till first N characters without taking another
# string.
# Input: Hello World
# N : 5
# Output: olleH World
def lstrrev(str1,n):
  size=len(str1)
  last=-(size-(n-1))
  for x in range(size):
    if x<1:
        print(str1[last::-1],end="")
  for y in range(n,size):
    print(str1[y],end="")
print()
str1=input("Enter the string: ")
n=int(input("Enter the number of char that you want to reverse: "))
lstrrev(str1,n)
```

```python
Q24)# Write a program which accepts string from the user and
# then reverse the string till the last N characters without taking
```

```
# another string.
# Input: Hello World
# N : 5
# Output: Hello dlroW
def rstrrev(str1,n):
  size=len(str1)
  for x in range(size-n):
    print(str1[x],end="")
  for y in range(1,n+1):
    print(str1[-y],end="")
str1=input("Enter the string: ")
n=int(input("Enter the number of char from last for reverse: "))
rstrrev(str1,n)
--------------------------------------------------------------------------

Q25)# Write a program which accepts strings from the user and
# then accepts a range and reverse the string in that range without
# taking another string.
# Input: Hello World
# Start: 3
# End : 8
# Output: HeoW ollrld

str1=input("Enter the string: ")
start=int(input("Enter the start range: "))
end=int(input("Enter the end range: "))
last=(len(str1)-(end-1))
for x in range(start-1):
    print(str1[x],end="")
for y in range(end-1,start-2,-1):
    print(str1[y],end="")
for z in range(end,len(str1)) :
    print(str1[z],end="")
---------------------------------------------------------------------------

Q26)# Write a program which accepts strings from the user and
# reverse words from that string.
# Input: Hello World
# Output: olleH dlroW
str1=input("Enter the string: ")
str1=" "+str1+" "
for x in range(len(str1)):
    c=str1[x]
    if c==" ":
        word=str1[x:0:-1]
        print(word)
---------------------------------------------------------------------------
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Q27)# Write a program which accepts strings from the user and
# reverse words from that string which are of even length.
# Input: New HO abcd can
# Output: New OH dcba can
str1=input("Enter the string: ")
```

```
start=0
str1=str1+" "
str2=" "
for x in range(len(str1)):
        c=str1[x]
        if c==" ":
            word=str1[start:x]
            start=x+1
            length=len(word)
            if length%2==0:
                str2=str2+word
                for x in range(1,length+1):
                    print(str2[-x],end="")
                print(end=" ")
            elif length%2!=0:
                 print(word,end=" ")
print()
```

Q28)# Write a program which accepts strings from the user
and check whether the string is palindrome or not.
Input: level
Output: String is palindrome.
```
str1=input("Enter the string: ")
str2=""
for x in range(1,len(str1)+1):
    str2=str2+str1[-x]
if str1==str2:
    print(str1,":is palindrome string")
else:
    print(str1,":is not palindrome string")
```

Q29)# Write a program which sets all characters in string
to a specific character (Implement strset()).
Input: HelloWorld
Char : a
Output: aaaaaaaaaa
```
str1=input("Enter the string: ")
char=input("Enter character that you want to make charset: ")
for x in range(len(str1)):
    print(char,end="")
print()
```

Q30)# Write a program which sets first N characters in string
to a specific character (Implement strnset()).
Input: HelloWorld a
N : 8
Output: aaaaaaaald
```
str1=input("Enter the string: ")
char=input("Enter character that you want to make charset: ")
n=int(input("Enter the number of char that you want to make charset: "))
```

```
for x in range(len(str1)):
    if x<n:
        print(char,end="")
    else:
        print(str1[x],end="")
print()
```

```
Q31)# Write a program which sets first N characters in string
# to a specific character
# Input: HelloWorld a
# N : 8
# Output: Heaaaaaaaa
str1=input("Enter the string: ")
char=input("Enter character that you want to make charset: ")
n=int(input("Enter the number of char that you want to make charset: "))
length=len(str1)
for x in range(len(str1)):
    if x<length-n:
        print(str1[x],end="")
    else:
        print(char,end="")
print()
```

```
Q32)# Write a program which accepts string from the user and
# searches for the first occurrence of a specific character in string and
# returns the position at which character is found (Implement strchr()).
# Input: India is my country.
# Enter Char : m
# Output: Character m is found at position 9
str1=input("Enter the string: ")
char=input("Enter the character that you want to calculate occurence: ")
for x in range(len(str1)):
    if char==str1[x]:
        print(f"Character {char} is found at position {x}")
print()
```

```
Q33)# Write a program which accepts string from user and
# search last occurrence of specific character in string and return the
# position at which character is found (Implement strchr()).
# Input: India is my country.
# Enter char : n
# Output: Character n is found at position 15
str1=input("Enter the string: ")
size=len(str1)
char=input("Enter the character that you want to calculate occurence: ")
for x in range(1,len(str1)+1):
    if char==str1[-x]:
        print(f"Character {char} is found at position {size-x}")
        break
```

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