

WORKSHEET – STRING HANDLING

1	<p>What will be the output of following code-</p> <pre>str="hello" str[:2]</pre> <p>Ans:</p> <p>'he'</p>
2	<p>What will be the output of following code-</p> <pre>str='Hello' res="" for i in range(len(str)): res=res+str[i] print(res)</pre> <p>Ans:</p> <p>Hello</p>
3	<p>What will be the output of following code-</p> <pre>s='Hi!' s1='Hello' s2=s[:2]+s1[len(s1)-2:] print(s2)</pre> <p>Ans:</p> <p>Hilo</p>
4	<p>What will be the output of following code-</p> <pre>'ba'+na'*2</pre> <p>Ans:</p> <p>'banana'</p>
5	<p>What will be the output of following code-</p> <pre>s='Welcome to python4csip.com' print(s.find('come'))</pre>

	<p>s.count('o')</p> <p>Ans:</p> <p>3 4</p>
6	<p>What will be the output of following program:</p> <pre>s='Hello' for i in s: print(i,end='#')</pre> <p>Ans:</p> <p>H#e#l#l#o#</p>
7	<p>What will be the output of following program:</p> <pre>for i in 'hardik': print(i.upper())</pre> <p>Ans:</p> <p>H A R D I K</p>
8	<p>What will be the output of following program:</p> <pre>s='Hello' for i in s: print('Welcome')</pre> <p>Ans:</p> <p>Welcome Welcome Welcome Welcome Welcome</p>
9	<p>What will be the output of following program:</p> <pre>str='virat' for i in str:</pre>

```
print(str.upper())
```

Ans:

VIRAT

VIRAT

VIRAT

VIRAT

VIRAT

10 **What will be the output of following program:**

```
a='hello'
```

```
b='virat'
```

```
for i in range(len(a)):
```

```
    print(a[i],b[i])
```

Ans:

h v

e i

l r

l a

o t

11 **What will be the output of following program:**

```
a='hello'
```

```
b='virat'
```

```
for i in range(len(a)):
```

```
    print(a[i].upper(),b[i])
```

Ans:

H v

E i

L r

L a

O t

12 **What will be the output of following program:**

```
print("xyyzxyzxxyy".count('xyy', 2, 11))
```

	<p>Ans:</p> <p>0</p>
13	<p>What will be the output of following program:</p> <pre>print("hello"+1+2+3)</pre> <p>Ans: error</p>
14	<p>What will be the output of following program:</p> <pre>str1 = "PYTHON4CSIP.COM" print(str1[1:4], str1[:5], str1[4:], str1[0:-1], str1[:-1])</pre> <p>Ans: YTH PYTHO ON4CSIP.COM PYTHON4CSIP.CO PYTHON4CSIP.CO</p>
15	<p>What will be the output of following program:</p> <pre>str = "my name is kunfu pandya"; print (str.capitalize())</pre> <p>Ans: My name is kunfu pandya</p>
16	<p>What will be the output of following program:</p> <pre>str1 = 'Hello' str2 ='World!' print('str1 + str2 = ', str1 + str2) print('str1 * 3 =', str1 * 3)</pre> <p>Ans: str1 + str2 = HelloWorld! str1 * 3 = HelloHelloHello</p>
17	<p>What will be the output of following program:</p> <pre>count = 0 for letter in 'Hello World': if(letter == 'l'): count += 1 print(count,'letters found')</pre> <p>Ans: 3 letters found</p>

18 **What will be the output of following program:**

```
s="python4csip"
n = len(s)
m=""
for i in range(0, n):
    if (s[i] >= 'a' and s[i] <= 'm'):
        m = m + s[i].upper()
    elif (s[i] >= 'n' and s[i] <= 'z'):
        m = m + s[i-1]
    elif (s[i].isupper()):
        m = m + s[i].lower()
    else:
        m = m + '#'
print(m)
```

Ans:

ppyHho#CcIi

19 **What will be the output of following program:**

```
a = "Mahender Singh Dhoni"
a = a.split()
b = a[0][0]+" "+a[1][0]+" "+a[2]
print (b)
```

Ans:

M. S. Dhoni

20 **What will be the output of following program:**

```
s='Mahender, Singh, Dhoni'
s1=s.split()
for i in s1:
    print(i)
```

Ans:

Mahender,
Singh,
Dhoni

21 **What will be the output of following program:**

```
"Welcome to Python4csip.com".split()
```

Ans:

	['Welcome', 'to', 'Python4csip.com']
22	<p>What will be the output of following program:</p> <pre>str = 'Hello Python' print (str) print (str[0]) print (str[2:8]) print (str[3:]) print (str * 3) print (str + "String")</pre> <p>Ans: Hello Python H llo Py lo Python Hello PythonHello PythonHello Python Hello PythonString</p>
23	<p>What will be the output of the program?</p> <pre>line = "PYTHON IS EASY TO LEARN" L = line.split('a') for i in L: print(i, end=' ')</pre> <p>Ans: PYTHON IS EASY TO LEARN</p>
24	<p>What will be the output of following program:</p> <pre>s='mahender, singh, dhoni' s1=s.split() for i in s1: if(i>'n'): print(i.upper()) else: print(i)</pre> <p>Ans: mahender, SINGH, dhoni</p>

25 **What will be the output of following program:**
my_string = 'PYTHON4CSIP'
for i in range(len(my_string)):
 print (my_string)
 my_string = '#'

Ans:
 PYTHON4CSIP
 #
 #
 #
 #
 #
 #
 #
 #
 #
 #

26 **What will be the output of following program:**
str="Python4csip.com"
for i in range(len(str)):
 if(str[i].isalpha()):
 print(str[i-1],end='')
 if(str[i].isdigit()):
 print(str[i],end='')

Ans:
 mPytho44csi.co

27 **What will be the output of following program:**
str="AB145CVD124N"
for i in range(len(str)):
 if(str[i].isalpha()):
 print(str[i-1],end='')
 if(str[i].isdigit()):
 print('#',end='')

Ans:
 NA###5CV###4

28	<p>What will be the output of following program:</p> <pre>str="PYTHON4CSIP" for i in range(len(str)): if(str[i].isdigit()): print(str[i],end='') if(str[i]=='N'or str[i]=='Y'): print('#',end='')</pre> <p>Ans: ##4</p>
29	<p>Write a Program to Count the Number of Vowels in a String.</p> <p>Ans:</p> <pre>string=input("Enter string:") 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("Number of vowels are:") print(vowels)</pre>
30	<p>Write a Program to Take in a String and Replace Every Blank Space with Hyphen.</p> <p>Ans:</p> <pre>string=input("Enter string:") string=string.replace(' ','-') print("Modified string:") print(string)</pre>
31	<p>Write a Program to Calculate the Length of a String Without Using a Library Function</p> <p>Ans:</p>


```
string=input("Enter string:")
count=0
for i in string:
    count=count+1
print("Length of the string is:")
print(count)
```

32 **Write a Program to Calculate the Number of Words and the Number of Characters Present in a String**

Ans:

```
string=input("Enter string:")
char=0
word=1
for i in string:
    char=char+1
    if(i==' '):
        word=word+1
print("Number of words in the string:")
print(word)
print("Number of characters in the string:")
print(char)
```

33 **Write a Program to Take in Two Strings and Display the Larger String without Using Built-in Functions**

Ans:

```
string1=input("Enter first string:")
string2=input("Enter second string:")
count1=0
count2=0
for i in string1:
    count1=count1+1
for j in string2:
```

```

count2=count2+1
if(count1<count2):
    print("Larger string is:")
    print(string2)
elif(count1==count2):
    print("Both strings are equal.")
else:
    print("Larger string is:")
    print(string1)

```

34 **Write a Program to Count Number of Lowercase Characters in a String**

Ans:

```

string=input("Enter string:")
count=0
for i in string:
    if(i.islower()):
        count=count+1
print("The number of lowercase characters is:")
print(count)

```

35 **Write a Program to Check if a String is a Palindrome or Not**

Ans:

```

string=input("Enter string:")
if(string==string[::-1]):
    print("The string is a palindrome")
else:
    print("The string isn't a palindrome")

```

36 **Write a Program to Calculate the Number of Upper Case Letters and Lower Case Letters in a String**

Ans:

```

string=input("Enter string:")

```

```

count1=0
count2=0
for i in string:
    if(i.islower()):
        count1=count1+1
    elif(i.isupper()):
        count2=count2+1
print("The number of lowercase characters is:")
print(count1)
print("The number of uppercase characters is:")
print(count2)

```

37 **Write a Program to Calculate the Number of Digits and Letters in a String.**

Ans:

```

string=input("Enter string:")
count1=0
count2=0
for i in string:
    if(i.isdigit()):
        count1=count1+1
    count2=count2+1
print("The number of digits is:")
print(count1)
print("The number of characters is:")
print(count2)

```

38 **Write a Program to Form a New String Made of the First 2 and Last 2 characters From a Given String**

Ans:

```

string=input("Enter string:")
count=0

```

```

for i in string:
    count=count+1
new=string[0:2]+string[count-2:count]
print("Newly formed string is:")
print(new)

```

39 **Write a Program to Count the Occurrences of Each Word in a Given String Sentence**

Ans:

```

string=input("Enter string:")
word=input("Enter word:")
a=[]
count=0
a=string.split(" ")
for i in range(0,len(a)):
    if(word==a[i]):
        count=count+1
print("Count of the word is:")
print(count)

```

40 **Write a Program to Check if a Substring is Present in a Given String**

Ans:

```

string=input("Enter string:")
sub_str=input("Enter word:")
if(string.find(sub_str)==-1):
    print("Substring not found in string!")
else:
    print("Substring found in string!")

```

41 **Write a Python Program to check First Occurrence of a Character in a String**

Ans:

```
string = input("Please enter your own String : ")
char = input("Please enter your own Character : ")
flag = 0
for i in range(len(string)):
    if(string[i] == char):
        flag = 1
        break

if(flag == 0):
    print("Sorry! We haven't found the Search Character in this string ")
else:
    print("The first Occurrence of ", char, " is Found at Position " , i + 1)
```

42 **Write a Python Program to find ASCII Value of a Character**

Ans:

```
ch = 'T'

print("The ASCII Value of %c = %d" %(ch, ord(ch)))
```

43 **Write a Python Program to Remove Last Occurrence of a Character in a String**

Ans:

```
string = input("Please enter your own String : ")
char = input("Please enter your own Character : ")
string2 = ""
length = len(string)
for i in range(length):
    if(string[i] == char):
        string2 = string[0:i] + string[i + 1:length]

print("Original String : ", string)
print("Final String : ", string2)
```