SOLVED QUESTIONS

1. What is a string?

Ans. A string is a sequence of characters. We can enclose characters in quotes (single, double or triple).

1. What is a range slice function in string?

Ans. Range Slice function gives the characters from the given in range using ':'.



1. What is traversing a string?

Ans. Traversing a string means accessing all the elements of the string one after the other by using the subscript/index values

1. What is an immutable data value?

Ans. An object which holds a fixed value is termed as immutable data value. These cannot be altered, changed or modified, for example, numbers, strings, etc,

S. Consider the string “Green Revolution" Write statements in Python to implement the following:

(a) To display the last four characters.

1. To display the starting index for the substring 'vo'.
2. To check whether the string contains 'vol' or not.

(d) To repeat the string 3 times.

Ans a) str[-4:]

‘tion’

1. str.find( t vo' )

8

1. 'vol’ in str True
2. str\*3

' Green RevolutionGreen RevolutionGreen Revolution '

1. What will be the output of the following programming code?

x="AmaZing" print (x [3:] , "and" , x [ : 2] ) print( x [—7: ] , "and", x [—4 print (x [2 : 7] , "and" , x [—4 : —1] )

Ans. Zing and Am AcnaZing and Zi aZing and Zin

Q. Consider the following code: 3

STR1=input ("Enter a string: ")

while len (STR1)<=4 :

if STR1[-1]==’z’:

STR1=STR1 [0 : 3] + 'c'

elif 'a' in STR1:

STR1 = STR1 [0] + 'bb'

elif not int (STR1[0]) :

STR1 = ' I '+STR1 ’z’

else:

STR1=STR1+ ' \* ’

print (STR1 )

What will be the output produced if the input is:

1. 1bzz

b) abcd

Ans. (a) 1bzc\*

1. endless loo because 'a' will always remain at index 0.

# FILL IN THE BLANKS

I. A string is a of characters.

2.subscript helps in accessing the string from the beginning.

3.subscript helps in accessing the string from the end.

4. '+' operator the strings on both sides of the operator.

method returns the lowest index of the substring if it is found in a given stnng•

## 5. The

6.function returns the exact copy of the string with the first letter in uppercase

# ANSWERS TO FILL IN THE BLANKS

## 2. Positive 3. Negative

|  |  |  |
| --- | --- | --- |
| I. sequence | 5. find() | 6. capitalize() |

## 4. concatenates

8. Write the output of the following code when executed:

Text= gmail.com 1=1en (Text)



for i in range (0/1) :

if Text. t il slgupper ( ) :

ntext.—ntext+Text [1] . lower ( ) el if Text .igalpha ( ) :

ntext—ntext+Text [i] . upper ( ) else:

ntext=ntext+ bb print (ntext) Ans. GMAILbbCOM

1. How many times is the word 'HELLO' printed in the following statement?

s= t python rocks for ch in s [3: 8] : print( Hello') Ans. 5 times

1. Find the output of the following:

word = 'green vegetables print (word. find( 2) ) print (word. find( 'veg', 2) ) print (word. find ('tab' , 4, 15) ) Ans. Output:

8

6

10

1. Write the word 'hello' letter by letter.

Ans. for ch in 'hello' • print (ch) Output: h

1

1

O

1. Write a program to count the number of vowels in the string pineapple.

 Ans. word — pineapple ' count = for letter in word: if letter in count=count+ 1 print (count) Output:

4

1. Write a program to check whether the string is a palindrome or not, str—input ("Enter the String: " ) Ans.

I—len (st r) psi-I index—O while (index«p) :

if  [p l ) :

index—index+l pep— 1 else:

print ("String is not: a palindrome") break

else :

print ("String is a Palindrome")

 Write a program that reads a line, counts the words and then displays how many words are there in the line.

Ans. line=input ("Enter line : ") x=line . split ( ) cnt=O for i in x:

cnt=cnt+l print (cnt)

15. Write a program that reads a string and then prints a string that capitalizes every alternate letter in the string,

e.g. school becomes sChOoL.

Ans. string=input ("Enter a string:

length = len (string) print ("original string: " , string) string2= for a in range (0, length) :

if string2 += string [a] else:

string2 += string [a] . upper ( ) print (string2)

16• Write a program that reads a line, counts how many times a substring appears in the line and then displays the count.

Ans. strl=input ("Enter line : " ) str2="is"

L=strl . split ( ) cnt=0 for i in L:

if i==str2:

cnt+=l print ("Substring is appearing: t' , cnt)

17. Write a function VowCount() in Python which takes a string as an argument; the function should count and display the occurrence of words starting with a vowel in the given string.

Example:

If the string content Is as follows:

Updated Information Is slmpllfled by official websites.

The VowCount() function should display the output as

Updated information

is official

Vowel words: 4

Ans. def VowCount ( ) :

ente0 strl— input ("Enter a string: 't ) word=strl . split ( ) for i in word: if i (0) in 'aeiou' or i [0] in 'AEIOU' :

cnt+=l print (i) print ( "Vowelwords : " , cnt)

1. Write a program that reads a string and displays the longest substring of the given string.

Ans. strl=input ("Enter a string: ") word=strl . split ( ) max1ength=0 maxword= " " for i in word:

x = len (i) if x>maxlength and i . isalpha ( ) ==True : print (i) max length=x maxword=i print ("Substring with maximum length is .

• " , maxword)

Output:

Enter a string: Hello Python Hello

Python

Substring with maximum length is: Python

1. Write a program to remove vowels from a string.

Ans. strl=input ("Enter string: t' )



for i in range (len (strl) ) :

if strl [i] not in "ieouaAOIUE":

str2= str2+strI (i] print ("Original string:" , strl) print ("New string is: ", str2) Output:

Original string : are learning python"

New string is : W r Irnng pythn"