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**PYTHON PROGRAMMING**

**DATE OF PERFORMANCE : 20/09/24**

**PRACTICAL 3**

**1.] Given a string h= ‘Hello World’. Display only the string “World” from the string. Also display it in the reverse order.**

***Input:***

**h="hello world"**

**print("\"world\"")**

**print(h[-1:5:-1])**

***Output:***



**2.]Given a string d ='beautiful', write the code to get the output as ‘fit’**

***Input:***

**h="beautiful"**

**g=(h[-3:-6:-1])**

**print(g)**

***Output:***



**3.]Program to accept a string from the user and display the reverse order.**

***Input:***

**h=input("enter string")**

**g=(h[-1::-1])**

**print(g)**

***Output:***



**4.] Write the program to accept the string from the user and also the index number, and then display the character of the string at that index position.**

***Input:***

**a=input("enter name: ")**

**b=int(input("enter number: "))**

**print("character of the string at the given index position:",(a[b]))**

***Output:***



**5.] Accept a string and a character from the user and display whether that character is present in the string or not.**

***Input:***

**a=input("enter name: ")**

**b=input("enter character: ")**

**if b in a:**

**print("present")**

**else:**

**print("absent")**

***Output:***



**6.] Convert the string d ='beautiful' into a list and display it.**

***Input:***

**d="beautiful"**

**b=list(d)**

**print(b)**

***Output:***



**7.] Accept name from the user, if the name is blank show the message that name cannot be empty and continue accepting name till it is not empty.**

***Input:***

**s=input("enter name:")**

**while s=='':**

**print("name is empty please rewrite")**

**s=input('entr name:')**

***Output:***



**8.] S=’Amalgamation’. Create a new string with a combination of another string ‘Sweet’ to it. Expected output m= ‘Sweet Amalgamation’**

***Input:***

**s='amalgamation'**

**m='sweet'**

**print(m," ",s)**

***Output:***



**9.] Given the string x=’84362’, display the largest element.**

***Input:***

**x="84632"**

**print(max(x))**

***Output:***



**10.] Given a string g=”home owner”, display the string by replacing the ‘me’ by ’use’.  Expected output: house owner**

***Input:***

**g='home owner'**

**print(g.replace('me','use'))**

***Output:***



**11.] Given a sentence d=’There are seven wonders in the world’. Write the program to count the number of words in the sentence and the number of characters in each word.**

***Input:***

**a=input("enter the sentence:")**

**d=a.split( )**

**s=a.isdigit( )**

**c=0**

**print('number of words are:',len(d))**

**for i in d:**

**print(i,":",len(i))**

**c=c+len(i)**

**print("number of characters are:",(c))**

***Output:***



**12.] Accept a string from the user and display it in upper and lower cases.**

***Input:***

**a=input("enter string:")**

**print(a.upper())**

**print(a.lower())**

***Output:***



**13.] Accept a string from the user and display the count of numbers in it. For eg. If the String is ‘Tower B2, Flat no 402’, output should be 4.**

***Input:***

**a=input("enter the string:")**

**c=0**

**for i in a:**

**if i. isdigit():**

**c=c+1**

**if c==0:**

**print("no numbers")**

**else:**

**print("total count of numbers:",c)**

***Output:***



**14.] Program to accept a string from the user and display the count of vowels in the given text.**

***Input:***

**a=input("Enter string:")**

**count=0**

**for i in a:**

**if i in "aeiouAEIOU":**

**count+=1**

**print("Total number of vowels in string:",count)**

***output:***



**15.] Accept a string from the user and check whether it is a palindrome irrespective of the case.**

***Input:***

**S=input("Enter string:")**

**if S==S[::-1]:**

**print("It is a palindrome")**

**else:**

**print("Not a palindrome")**

***output:***



**16.] Accept a string and check whether it contains all alphabets.**

***Input:***

**a=input("Enter string:")**

**b=a.isalpha()**

**if b==True:**

**print("It contains all alphabets")**

**else:**

**print("It does not contain all alphabets")**

***output:***



**17.] Accept a string, if the length is more than 3 characters then create a string with the first two and last two characters of the given string and display it.**

***Input:***

**S=input("Enter string:")**

**if len(S)>3:**

**a=S[:2]+S[-2:]**

**print('New string',a)**

**else:**

**print("Length is less than 4 characters")**

***output:***



**18.] Demonstrate unpacking in strings.**

***Input:***

**a=("Hello")**

**p,q,r,s,t=a**

**print(p)**

***output:***



**19.] Accept a string from user and display whether the string starts with ‘A’**

***Input:***

**n=input("Enter string:")**

**if n.startswith("A"):**

**print("The string starts with an 'A'")**

**else:**

**print("The string does not start with an 'A'")**

***output:***



**20.] Demonstrate the use of join and strip method.**

***Input:***

**a=("Madam")**

**s="$".join(a)**

**a.strip()**

**print(s)**

***output:***

