

BRAINWARE UNIVERSITY

398, Ramkrishnapur Road, Barasat, North 24 Parganas, Kolkata - 700 125

<u>Laboratory Report / Workshop / Assignment Submission</u>

Session - 2024 - 25

Lab Report No: -

Topic Title: -

Name of the Department: - Cyber Science & Technology

Programme Name: - B.Sc (H) ANCS 2024

Semester / Year: - Semester-2, 2024-2025

Course Code: - VAC09009

Course Name: - Python Programming Lab

Name of the Student: - Rupankan Chaknabonty.

Roll No: -

Registration No: -

Student Code: -BWU/BNC/24/157

String in Pathon

A string in python is a sequence of charecters enclosed in (") single ("") double on (""") otnipple quotes, strings are immutable meaning their content can't be changed ofter erection. Strings can contain letters, number, symbols and spaces.

Type of String Operations:

1. Creating Strings: Strings can be created using the codo quotes.
Input: print ("Hello")

Owhout: Hello

2. Accessing String Charecters: Strings are indexed starting from zero.

Input: a = ("Hello")

Print (a[2])

Output: L

3. String Slieing: Slieing allows extracting a sub string from a string. Input: text = "Hello, World!"

Output: Hello

Output: Hello

4. String Operation. A. a) concatination (+): Addition of two strings. Input:

a = "Hello" b = "Woold"

Print = (add) b Output: HelloWorld

b) Repetition (*): Repetation is used to print the string multiple times.

Input: rep "hello" output: hellohellohello

Print (rep) 3 output: hellohellohello

4.c) Membership (in, not in): Using the membership string operation we can find it a sub string is present in the string on not. Input: a = "S get last"

Print ('get' in a) Output: True 5. Common String Methods: 5.a) Changing Case (s. upper()), (s. lower()), (s. title()), (s. capitalize()) Print (a. upper())
Print (a. lower())
Print (a. litle())

Print (a. title()) 5. b) Searching: One Using searching method we can count the storing index on occurrences.
(a. find ("") (a. count ("")) Input: a = "I am Here" | Output: 1
Print (a. find (am")) 5.C) Replacing Text! Using this we can replace mercon no string. Input: a = "I am Here" | Output: I is Here

Print (a. heplace (am", "is")) 6. String formating . For string formating we use tistning after python 3,6 foretions version. Input: tel Mage of Raj is Eas of Outout. 7. Escape Sequence: It allows inserting special characters in string for special operations Print (1- "Raideer) Hello

8. Converting Data to String:

num = 123

In this may we can convert any integer on any other data types into string format.

Example of String Formating:

Input: name = "Alice"

age = 30

print (+"Name: Strame3, Age: 2 age 3)}

Output: Name: Alice, Age: 30

Example of Escape Sequence:

Input! print ("HellolnWorld! ItThis is Bython.")

Output: Hello World! This is Python.

Explaination: In creates anew line.

It adds a tab space.

(20,02.25