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| PICTLOGO | PUNE INSTITUTE OF COMPUTER TECHNOLOGY  PUNE - 411043 | | |
| Department of Electronics & Telecommunication | | |
| ASSESMENT YEAR: 2024-2025 | CLASS: SE | |
| SUBJECT: DATA STRUCTURES | | |
| **EXPT No:13** | LAB Ref: SE/2024-25/ | | Starting date: |
|  | Roll No:22168 | | Submission date: |
| **Title:** | **Expt.-13: String manipulation using Python** | | |
| **Problem Statement** | **Write a program in Python to perform the following string operations using the library functions. 1. Input 2. Display string 3. Display length of string 4. Reverse, 5. Compare, 5. Substring using slice operator** | | |
| Refer lab manual for below | | | |
| **Prerequisites:** |  **Basic Python Syntax**: Familiarity with variables and simple data types.   **Understanding of Strings**: Knowing that a string is a sequence of characters enclosed in quotes.   **Python Environment**: A setup to write and run Python code (like an IDE or code editor | | |
| **Objectives:** | • To learn the string data type and different string operations in Python.  • Perform various operation on sting using python. | | |
| **CONCLUSION:** | | | |
|  | By understanding and performing operations on strings in Python, we can efficiently manipulate textual data. Mastery of string handling is crucial for solving many problems in programming, such as text processing, data manipulation, and automation. The operations we practiced provided a foundation for more advanced string manipulation techniques in Python | | |
| **REFERENCES: refer lab manual for the same** | | | |
|  | 1. Seymour Lipschutz, Data Structure with C, Schaum’s Outlines, Tata McGrawHill  2. Yedidyah Langsam – Data structures using C and C++ - PHI Publications (2nd Edition).  3. Yashavant Kanetkar, Data Structures Through C, BPB Publication, 2nd Edition | | |

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| **Continuous Assessment for DS AY: 2024-25** | | | |
| **RPP (5)** | **SPO (5)** | **Total (10)** | **Signature:** |
|  |  |  | **Assessed By: Dr. V. B. Vaijapurkar** |
| **Start date** | **Submission date** | | **Date:** |
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| **\*Regularity, Punctuality, performance**  **\*Submission, Presentation, orals** | | | |