PROGRAMMING FUNDAMENTALS

Lab Experiment #08

OBJECTIVE:
Explore and practice using various built-in functions in Python.

TOOLS REQUIRED:
Personal computer with Windows and Python installed

DESCRIPTION:
This lab focuses on understanding and utilizing built-in functions in Python. Python offers a wide range of built-in functions that can perform various tasks. This lab will cover some common built-in functions and their applications.

LAB TASK:
1. Open Python IDLE terminal and create a new file. Name it "lab8_1.py". Write a program to demonstrate the use of the len() function. Take a user input string and print its length.

2. Create "lab8_2.py". uses the max() and min() functions. Ask the user to input three numbers and find the maximum and minimum values among them.

3. Create a new file named "lab7_3.py". Implement a program that uses the sum() function to calculate the sum of numbers in a given list.

4. Create "lab8_4.py". Utilize the sorted() function to sort a list of integers provided by the user in ascending order. Print the sorted list.

5. Create "lab8_5.py". Use the abs() function to find the absolute value of a user-inputted number. Print the result.

6. Create "lab8_6.py". Implement a program using the type() function to determine the data type of a user-inputted value.

7. Create "lab8_7.py". Use the format() function to format and print the current date in the "YYYY-MM-DD" format.

QUESTIONS:

Q # 1:How does the round() function operate in Python, and in what situations would you use it? Give an example.

Ans.

Q # 2: Discuss the functionality of the format() function in Python and its importance in string formatting. Illustrate with an example.

Ans.

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Q # 3: Explain the purpose of the isinstance() function and when it might be beneficial in a Python program.

Provide an example.

Ans.

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_____

Name: _____

Roll #: _____

Date: _____

Subject Teacher

Remarks: