SSGMCE/FRM/32-B



SHRI SANT GAJANAN MAHARAJ COLLEGE OF ENGG.

LABORATORY MANUAL

PRACTICAL EXPERIMENT INSTRUCTION SHEET

EXPERIMENT TITLE: Write python program in which an function(with single string parameter) is defined and calling that function prints the string parameters given to function.

EXPERIMENT NO. : **SSGMCE/WI/IT/01/3IT09/01** ISSUE NO. : 00 ISSUE DATE : 30.07.2023

REV. DATE: REV. NO.: DEPTT.: INFORMATION TECHNOLOGY

LABORATORY: 3IT09 COMPUTER SKILL LAB – I SEMESTER: III PAGE: 1 OF 2

1.0) AIM: Write python program in which an function(with single string parameter) is defined and calling that function prints the string parameters given to function.

2.0) SCOPE: The scope of this Python program is to demonstrate the creation and utilization of functions with string parameters. It provides insight into how functions can receive input in the form of strings and perform actions based on that input.

3.0) FACILITIES/ APPARATUS:

- 1. Python development environment (e.g., IDLE)
- 2. Input mechanism (keyboard)
- 3. Computer with Python installed

4.0) THEORY:

Program Description:

- 1. Function Definition: The program begins by defining a function named print_string that takes a single parameter, input_string, which is expected to be a string.
- 2. User Input: After defining the function, the program uses the input() function to prompt the user to enter a string. The entered string is stored in the variable input_string.
- 3. Function Call: The print string function is then called, passing the input string as an argument.
- 4. Function Execution: Inside the print_string function, the received input_string parameter is printed to the console along with a message.

Example:

For example, if the user enters the string "Hello, world!" when prompted, the program will call the print_string function with this input. The function will then print the message "The string passed to the function is: Hello, world!" to the console.

Program Execution Line by Line:

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LABORATORY: 3IT09 COMPUTER SKILL LAB – I SEMESTER: III PAGE: 2 OF 2

```
# Define a function that takes a string parameter
def print_string(input_string):
    print("The string passed to the function is:", input_string)

# Call the function with a string argument
input_string = input("Enter a string: ") # Get a string from the user
print_string(input_string) # Call the function with the user's input
```

Output:

```
Enter a string: Hello, world!
The string passed to the function is: Hello, world!
```

In this program:

- 1. We define a function named print_string that takes a single parameter input_string, which is a string.
- 2. Inside the function, we use the print() function to display a message along with the value of input_string.
- 3. We then call the function print_string and pass a string obtained from the user as an argument.
- 4. The user is prompted to enter a string, which is stored in the input_string variable.
- 5. Finally, we call the print_string function with the user's input, and it prints the string to the console.

This program demonstrates how to define and call a function that works with string parameters in Python.

Program

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EXPERIMENT NO.: SSGMCE/WI/IT/01/3IT09/01 ISSUE NO.: II

1330E NO. 1 00 ISSUE DATE : 30.07.2023

REV. DATE: REV. NO.: DEPTT.: INFORMATION TECHNOLOGY

LABORATORY : 3IT09 COMPUTER SKILL LAB – I SEMESTER : III PAGE: 3 OF 2

4.2) Program Execution:

- 1. Line 4-6: We define a function named print_string that expects a single parameter, input_string, which is a string. This function will be used to print the received string.
- 2. Line 9: The program prompts the user to enter a string using the input() function. The entered string is stored in the variable input_string.
- 3. Line 10: We call the print_string function and pass input_string as an argument. This invokes the function and provides it with the string input.
- 4. Line 14-16: Inside the print_string function, the value of input_string is printed to the console using the print() function along with a descriptive message.

5.0) Conclusion:

This program serves as a practical introduction to defining and using functions in Python that accept string parameters. It illustrates how functions can receive and work with different types of data, in this case, strings. By understanding this program, students can grasp the concept of function parameters and gain valuable experience in creating and using functions to perform specific tasks. Learning this fundamental concept is crucial for building more complex programs in Python and other programming languages.



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