


| | | | | |
|---|---|----------------|---------------------------------|--------------|
|  | SHRI SANT GAJANAN MAHARAJ COLLEGE OF ENGG. | | LABORATORY MANUAL | |
| | PRACTICAL EXPERIMENT INSTRUCTION SHEET | | | |
| | EXPERIMENT TITLE : Write python program in which an function is defined and calling that function prints Hello World. | | | |
| 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 is defined and calling that function prints Hello World.

2.0) SCOPE: This Python program aims to introduce students to the concept of defining and calling functions. It provides a foundational understanding of function creation and execution, helping students grasp the modular and organized nature of programming.

3.0) FACILITIES/ APPARATUS:

1. Python development environment (e.g., IDLE)
2. Input mechanism (keyboard)

4.0) THEORY:

The program exemplifies the creation and utilization of functions in Python through the following steps:


4.1) Function in Python:

A function in Python is a reusable block of code that performs a specific task. It allows you to break down your program into smaller, manageable components, making your code more organized, modular, and easier to understand. Functions enhance code reusability and promote the "Don't Repeat Yourself" (DRY) principle.

Example:

```
def greet(name):
    """A function to greet a person."""
    print("Hello, " + name + "!")

# Calling the function
greet("Alice")
greet("Bob")
```

| | | | | |
|---|---|----------------|---------------------------------|--------------|
|  | SHRI SANT GAJANAN MAHARAJ COLLEGE OF ENGG. | | LABORATORY MANUAL | |
| | PRACTICAL EXPERIMENT INSTRUCTION SHEET | | | |
| | EXPERIMENT TITLE : Write python program in which an function is defined and calling that function prints Hello World. | | | |
| 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: 2 OF 2 |

Output:

```
Hello, Alice!
Hello, Bob!
```

Explanation:

1. We define a function named greet using the def keyword, followed by the function name and parentheses.
2. Inside the parentheses, we specify the parameter name, which will receive the name of the person to greet.
3. The function's docstring ("""A function to greet a person.""") provides a brief description of its purpose.
4. Inside the function, we use the print() function to display a greeting message with the provided name.
5. We call the function twice, passing different names as arguments.

Functions in Python allow you to encapsulate a block of code into a reusable unit, improving code organization and promoting modular design. By defining functions, you enhance code readability and maintainability while avoiding repetition of similar tasks throughout your program.

4.2) Program Explanation:


1. Function Definition: Start by defining a function named print_hello using the def keyword. The function's purpose is to print "Hello, World!".
2. Function Call: Call the defined function print_hello() to execute the code within it and display the expected output.

Functions/Data Types Used - Explanation with Example:

1. def Keyword: This keyword is used to define a function. Example: def print_hello():.
2. print() Function: This function is used to display output to the console. Example: print("Hello, World!").

Example Syntax and Description:

| | |
|-----------------------------------|--|
| PREPARED BY: DR. A. S. MANEKAR | APPROVED BY: (H.O.D.) DR. A. S. MANEKAR |
|-----------------------------------|--|

| | | | | |
|---|---|----------------|---------------------------------|--------------|
|  | SHRI SANT GAJANAN MAHARAJ COLLEGE OF ENGG. | | LABORATORY MANUAL | |
| | PRACTICAL EXPERIMENT INSTRUCTION SHEET | | | |
| | EXPERIMENT TITLE : Write python program in which an function is defined and calling that function prints Hello World. | | | |
| 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: 3 OF 2 |

```
def print_hello():
    print("Hello, World!")

print_hello()
```

Program

```
# Define a function
def print_hello():
    print("Hello, World!")

# Call the function
print_hello()
```

4.3) Explanation of Execution:

1. A function named **print_hello** is defined. It contains the code to print "Hello, World!".
2. The function is called using **print_hello()**. This leads to the execution of the code within the function, resulting in the output "Hello, World!" being displayed.

5.0) Conclusion:

This programming exercise imparts the fundamental concept of functions in programming to students. It encourages the notion of dividing complex tasks into smaller, manageable parts. By learning to define and call functions, students develop a structured approach to solving problems and gain valuable insights into the modular nature of coding. The experiment fosters a practical understanding of functions and their role in organized and efficient programming practices.

| | |
|-----------------------------------|--|
| PREPARED BY: DR. A. S. MANEKAR | APPROVED BY: (H.O.D.) DR. A. S. MANEKAR |
|-----------------------------------|--|