

SWT11022: Practical for Fundamentals of Programming

Department of Information & Communication Technology

Faculty of Technology

South Eastern University of Sri Lanka

Time: - 08.30am - 10.30 am

Lab sheet 09

Title: Void Functions in C Programming

Objective:

- Understand the concept and syntax of void functions.
- Learn the differences between void and return-type functions.
- Practice declaring, defining, and calling void functions
- Use void functions to modularize code and improve readability.
- Perform exercises to reinforce the understanding of void functions.

What is a Void Function?

A void function is a function that does not return any value to the calling function. It is commonly used when a task needs to be performed (e.g., printing output, displaying a menu, etc.) but there is no need to return a result.

Syntax of a void function:

```
void functionName(parameters) {  
    // function body  
}
```

Calling a void function:

```
functionName(arguments);
```

Task 01: Display a Welcome Message using a Void Function

Function Declaration (Prototype):

```
void displayWelcome();
```

Function Definition:

```
void displayWelcome() {  
    printf("Welcome to the Fundamentals of Programming Lab!\n");  
}
```

Function Call in main():

```
1  #include <stdio.h>  
2  
3  void displayWelcome(); // Declaration  
4  
5  int main() {  
6      displayWelcome(); // Function Call  
7      return 0;  
8  }  
9  
10 void displayWelcome() { // Definition  
11     printf("Welcome to the Fundamentals of Programming Lab!\n");  
12 }  
13
```

Task 02: Create a Void Function to Display a Menu

```
1  #include <stdio.h>  
2  
3  // Function Declaration  
4  void showMenu();  
5  
6  int main() {  
7      showMenu(); // Calling the void function  
8      return 0;  
9  }  
10  
11 // Function Definition  
12 void showMenu() {  
13     printf("----- MAIN MENU ----- \n");  
14     printf("1. Add Numbers\n");  
15     printf("2. Subtract Numbers\n");  
16     printf("3. Exit\n");  
17 }  
18
```

Exercise 1:

Create a void function called displayDeveloperInfo() that prints:

Developed by: [Your Name]
Index Number: [Your Index]
Course: Fundamentals of Programming

Exercise 2:

Write a void function printStars(int n) that prints a line of n stars.

Example Input: 5
Output: *****

Exercise 3:

Create a program with a void function greetUser() that asks for the user's name and prints a greeting like:

Enter your name: Ayesha
Hello, Ayesha! Welcome to the lab.

Report Submission Guidelines

- Submit the Report by **14/05/2025**.
- Late submissions will not be accepted.
- Report Structure
 - Practical No
 - Date of Submission
 - Title
 - Objective of the practical.
 - Exercise
 - Challenges
 - Discussion
 - References