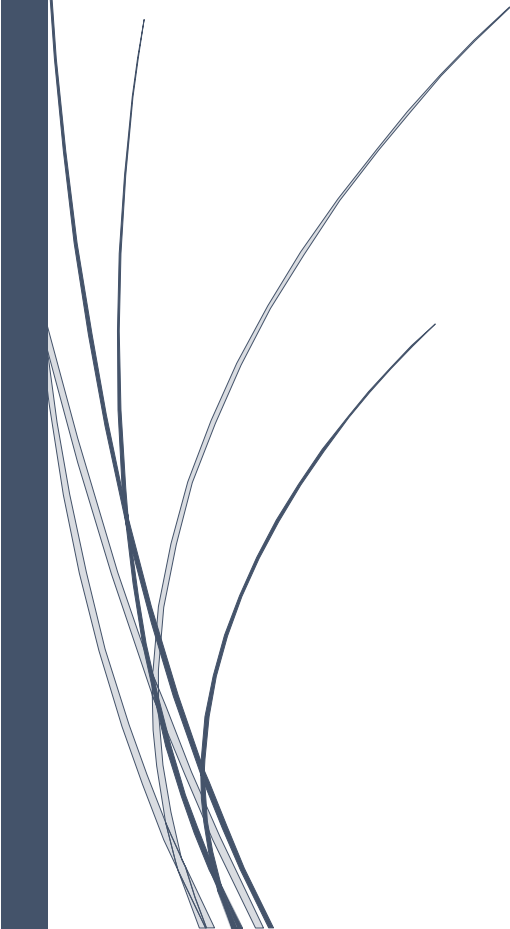


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5/2/2021

Programming Fundamentals

Lab Manual 10



LAB 10 Manual

Programming Fundamentals

LAB TOPIC: Functions in c++

C++ provides some pre-defined functions, such as `main()`, which is used to execute code. But you can also create your own functions to perform certain actions.

To create (often referred to as declare) a function, specify the name of the function, followed by parentheses `()`:

Syntax of function:

```
void myFunction() {  
    // code to be executed  
}
```

- `myFunction()` is the name of the function
- `void` means that the function does not have a return value. You will learn more about return values later in the next chapter
- inside the function (the body), add code that defines what the function should do

Example

// Create a function

```
void myFunction() {  
    cout << "I just got executed!";  
}
```

```
int main() {  
    myFunction(); // call the function  
    return 0;  
}
```

// Outputs "I just got executed!"

Example

```
void printNum(int num) {  
    cout << num;  
}  
  
int main() {  
    int n = 7;  
  
    // calling the function  
    // n is passed to the function as argument  
    printNum(n);  
  
    return 0;  
}
```

OUTPUT

7

Example 2: Function with Parameters

```
#include <iostream>  
using namespace std;  
  
// display a number  
void displayNum(int n1, float n2) {  
    cout << "The int number is " << n1;  
    cout << "The double number is " << n2;  
}  
  
int main() {  
  
    int num1 = 5;  
    double num2 = 5.5;  
  
    // calling the function  
    displayNum(num1, num2);  
  
    return 0;  
}
```

Output

```
The int number is 5  
The double number is 5.5
```

LAB Tasks

1. Write a function that takes two inputs from the user and performs addition and multiplication.
2. Write a function that converts the temperature given from the user in Celsius to Fahrenheit.
3. Write a function that takes input from the user as a parameter of function and calculate square root of the number.
4. Write a program that has function parameters to take the input in hours minutes and returns total seconds and displays them on the screen.
5. Write a function to find out the greater number from the other in two inputs given by user.