1. **Function Declaration**

* **A function declaration has the following parts:**

**return\_type function\_name ( parameter list );**

* For the above defined function **max(),** following is the **function declaration**:

**int max (int num1, int num2) ;**

* Parameter names are not important in function declaration only their type is

required, so following is also valid declaration:

**int max (int, int) ;**

* you should declare the function at the top of the file calling the function.

1. **Calling a Function**

* To use a function, you will have to call or invoke that function.
* When a program calls a function, program control is transferred to the called function.
* A called function performs defined task and when it’s return statement is executed or when its function-ending closing brace is reached, it returns program control back to the main program.
* To call a function, you simply need to pass the required parameters along with function name, and if function returns a value, then you can store returned value. **For example:**

**#include <iostream.h>**

**int max(int num1, int num2); // function declaration**

**int main ()**

**{**

**int a = 100, b = 200 , ret; // local variable declaration:**

**ret = max(a, b); // calling a function max**

**cout << "Max value is : " << ret << endl;**

**return 0;**

**}**

**// This function returning the max between two numbers**

**int max(int num1, int num2)**

**{**

**int result; // local variable declaration**

**if (num1 > num2)**

**result = num1;**

**else**

**result = num2;**

return result;

**}**

**Example :** Write C++ program to calculate the **squared value** of a given integer number passed from the main function. Use this function in the program to calculate the squares of numbers from 1 to 10.

**#include <iostream.h>**

**int square(int y); // function declaration**

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**// This function to calculate the square value of number**

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**Example:** Write a function to find the largest integer number among three integer numbers entered by the user in the main function.

**#include <iostream.h>**

**int max(int , int, int) ; // function declaration**





**Example:** Write C++ program to create a simple calculator to (add, subtract, multiply and divide) using function.