**Functions in C**

* There are 2 types of functions.
* 1) Standard Library Functions – ex. printf(), scanf(), sqrt().
* 2) User defined Functions – defined by programmer for implementing specific functionality.
  + - * - To make program modular and structured. As C is Procedural language
* To define any user define function we need to define ***3 things :***
  + Function declaration – ***Syntax : return\_type function\_name(list of parameters);***
  + Function definition – ***Syntax :***

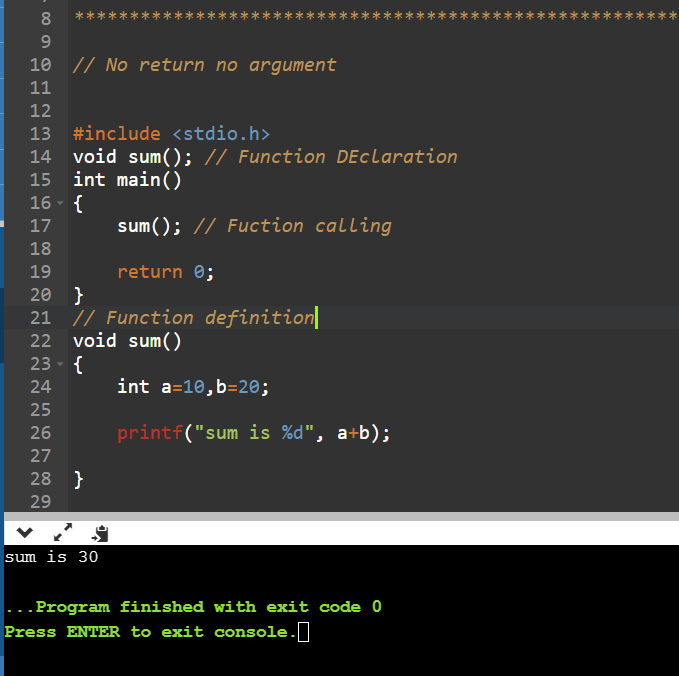
***return\_type function\_name(list of parameters)***

***{***

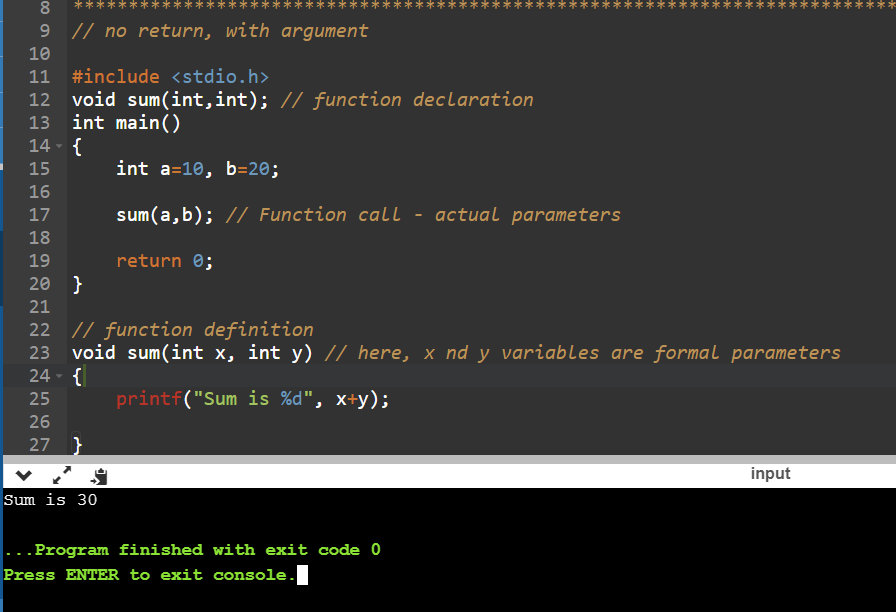
// Statements;

***}***

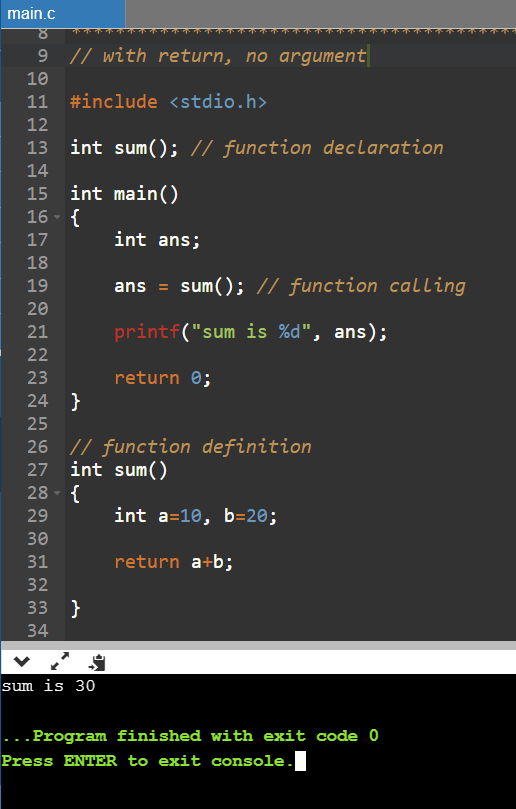
* + Function calling – ***Syntax : function\_name(list of parameters);***
* ***4 Types*** of user defined functions –
* ***1) No Return , No Argument***



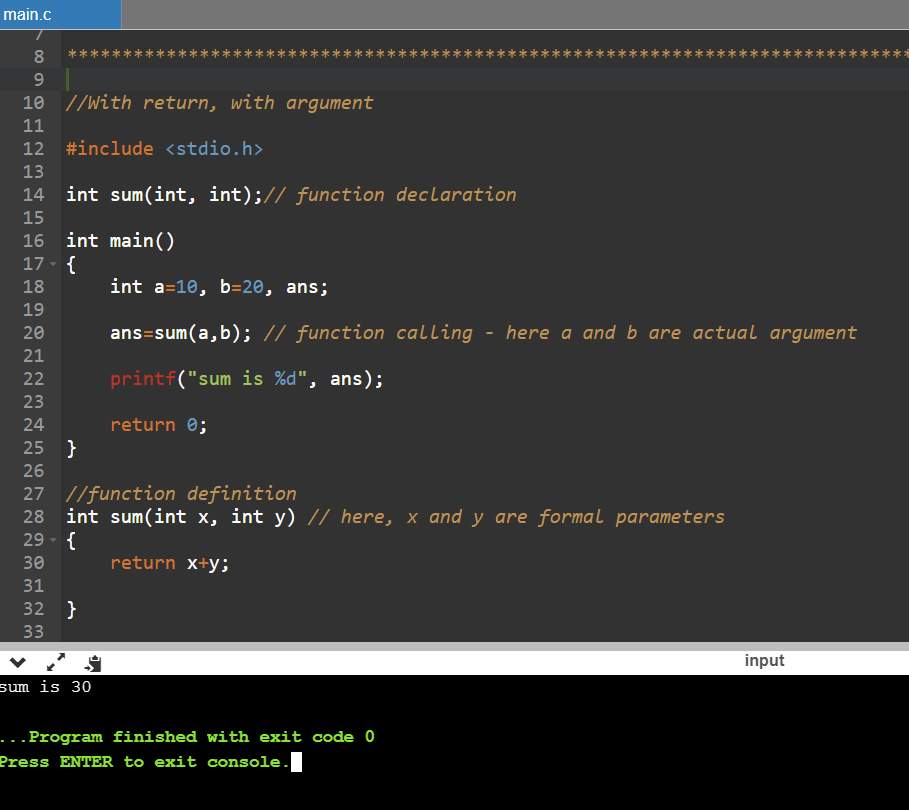
* ***2) No return, With Argument***



* ***3) With return, No argument***



* ***4) With return, with argument***



* Recursion : when function calls itself
  + For example ,

