PPS MINI PROJECT

LIBRARY MANAGEMENT SYSTEM

Presented By

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INTRODUCTION

The mini-project “Library management system project in C” is a console application using the C programming language. This project compiled in Code Blocks with the GCC compiler. In this console application, you can do basic library management task like adding the book, view the added book, search the books, ..etc.

OBJECTIVE

Library Management System is a term for computer-based system that manage the catalogue of a library. The main purpose of this system is to manage library daily operation efficiently.To build a system that can receive input and generate automatically output in easy way and short time.To build a monitoring system that is able to monitor and manage all library operations efficiently. Give an opportunity to librarians to reduce mistakes that always happen during manual method.To store properly the library items in order to maintain their security.To enter and preserve details of the various issues and keep a track on their returns.

This system basically has four types of modules that handle daily activities for the library :

a) Manage Account module b) Search Record Module

c) Book Borrowing System Module d) Report Generator Module

OBJECTIVE

By using library management system, the operation of borrowing and managing inventories is paperless. This system provides a user-friendly data entry with dropdown button menu, list box and checkbox in purpose to make the input entry easier to understand and use. It is also created to ensure that the library items are stored properly in order to maintain their security.

This system will store all the books and members information that consist book numbers, book titles, author names and racks to the system database. It also provides search function to help students find the book by number of book. Search function will search through the books database to look for the book and view where the book is situated.

For the administrator user, only librarians have access to view or edit data from the system databases. Administrator user will handle administrative functions such as create new LMS user account and decide the number of days allowed for the borrowed books. Users need to enter correct password and user id before they can access to this function. From here, they can add, delete or update the book and borrower database.

ALGORITHM

1) First we declare structure variable, and in main syntax we declared all other necessary variables.

2) Then we make a lope for a startup page which is a menu for library management so that we can use one option from menu and after completing that we come to main page for other management work.

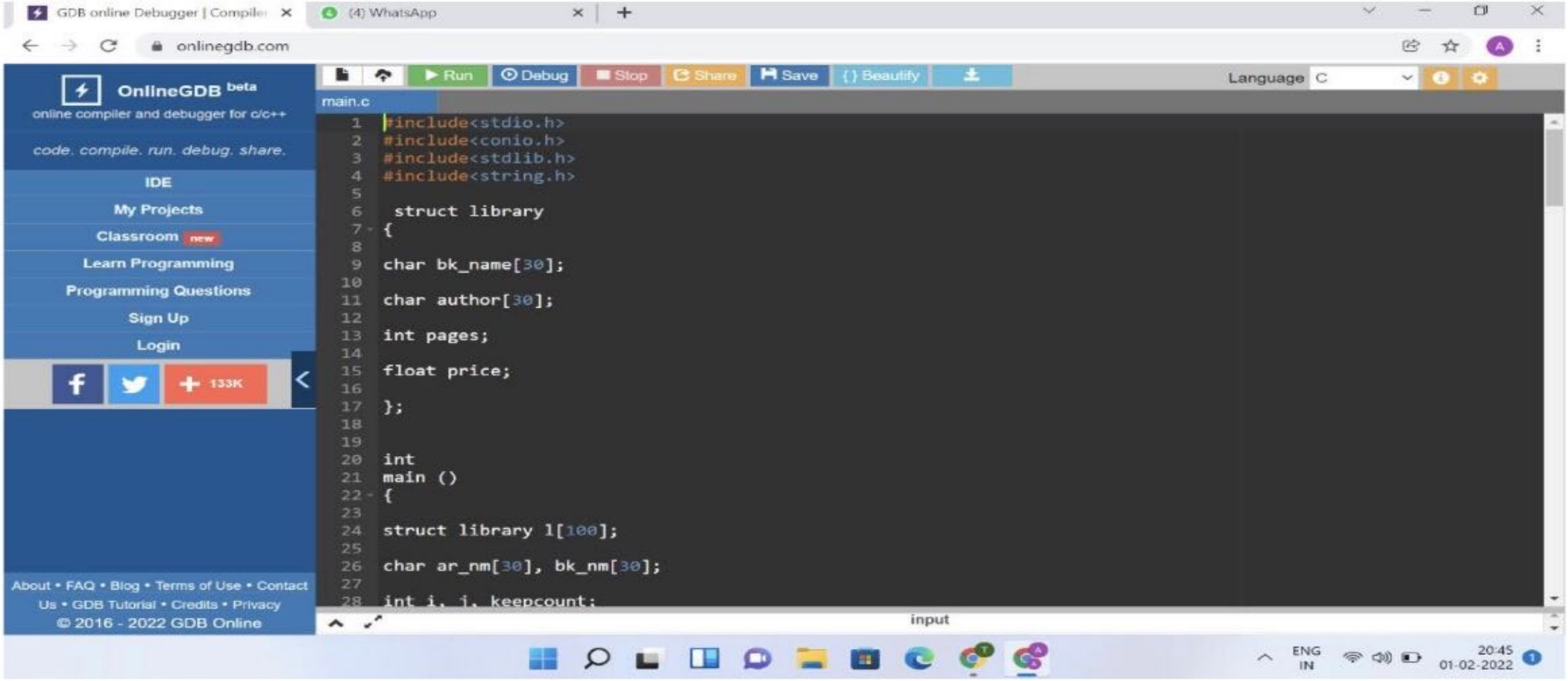
3) Then we make a switch case system according to the option in menu.

4) We make first switch case as a option in which we can add book details. Second we make option for listing all books with all added details. Third we add option for searching book related to the entered author name. Forth we add option for search books detail related to book name. Fifth we add option which tell how many books are store in program.

5) And after completing with all switch case with full coding of the program to be done in each case we just complete the coding.

6) Now program is ready for managing library things

SAMPLE CODE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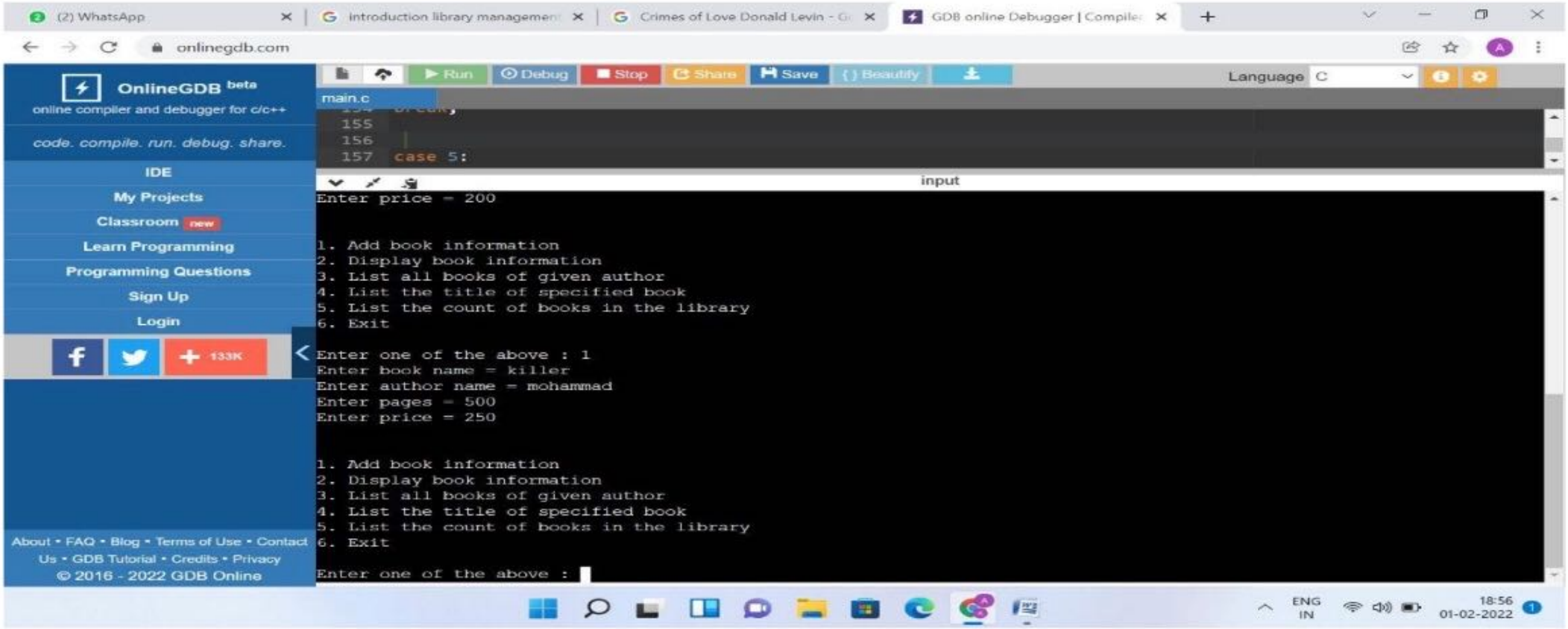
Run
Debug
Stop
Share
Save
{} Beautify
Language C
main.c
#include<stdio.h>
#include<conio.h>
#include<stdlib.h>
#include<string.h>
struct library
{
char bk_name[30];
char author[30];
int pages;
float price;
};
int
main ()
{
struct library l[100];
char ar_nm[30], bk_nm[30];
int i, j, keepcount;
input
ENG
IN
20:45
01-02-2022

CODE OUTPUT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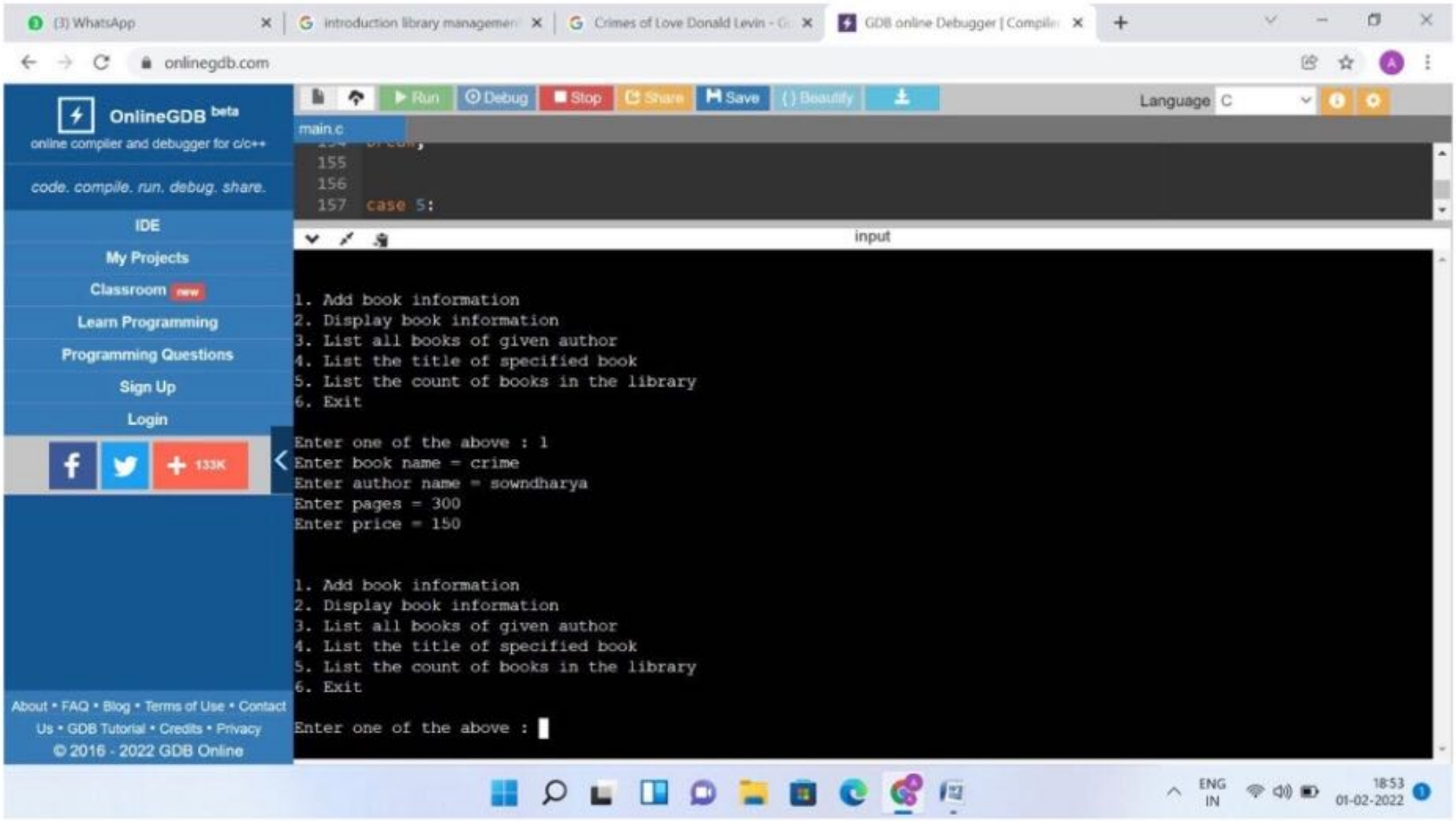
Run
Debug
Stop
Share
Save
{ } Beautify
Language C
main.c
155
156
157 case 5:
input
Enter price = 200
1. Add book information
2. Display book information
3. List all books of given author
4. List the title of specified book
5. List the count of books in the library
6. Exit
Enter one of the above : 1
Enter book name = killer
Enter author name = mohammad
Enter pages = 500
Enter price = 250
1. Add book information
2. Display book information
3. List all books of given author
4. List the title of specified book
5. List the count of books in the library
6. Exit
Enter one of the above :
ENG
IN
18:56
01-02-2022

CODE OUTPUT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Programming Questions
Sign Up
Login
Run
Debug
Stop
Share
Save
{ } Beautify
Language C
main.c
155
156
157 case 5:
input
1. Add book information
2. Display book information
3. List all books of given author
4. List the title of specified book
5. List the count of books in the library
6. Exit
Enter one of the above : 1
Enter book name = crime
Enter author name = sowndharya
Enter pages = 300
Enter price = 150
1. Add book information
2. Display book information
3. List all books of given author
4. List the title of specified book
5. List the count of books in the library
6. Exit
Enter one of the above :
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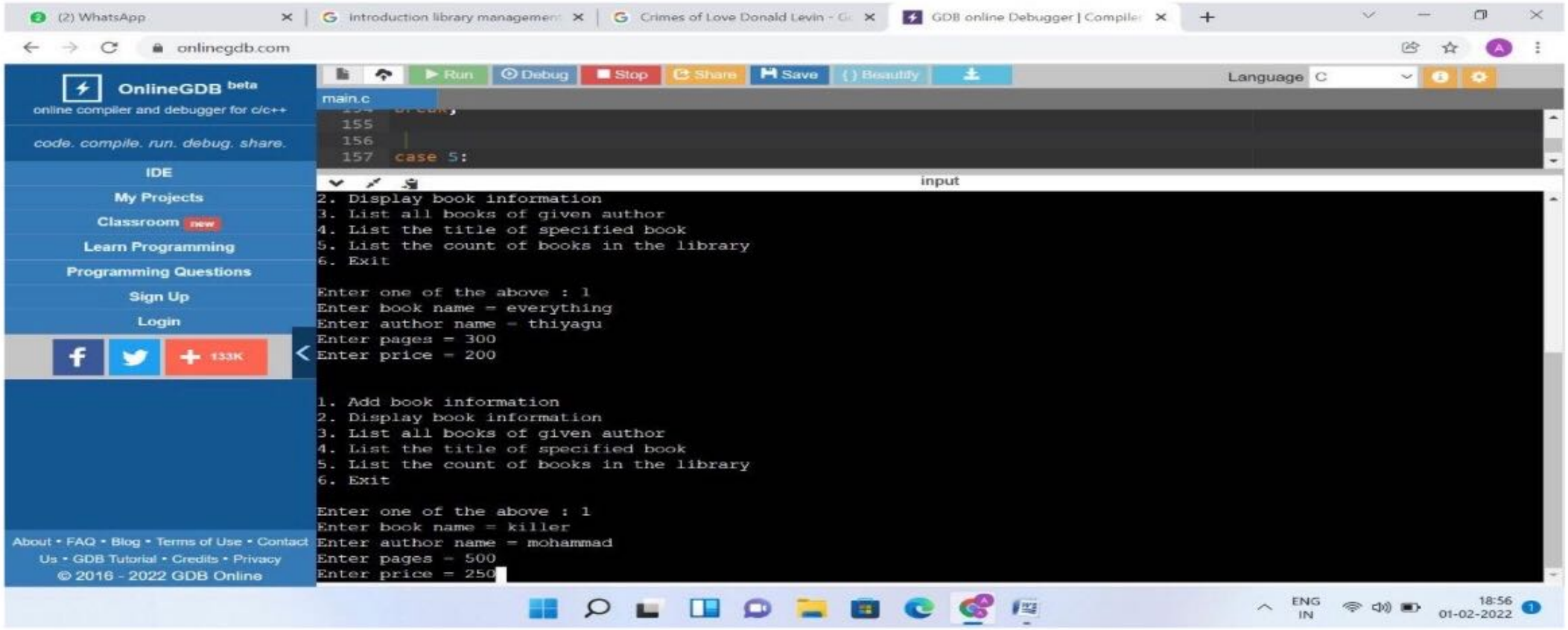
CODE OUTPUT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Run
Debug
Stop
Share
Save
{} Beautify
Language C
main.c
155
156
157 case 5:
input
2. Display book information
3. List all books of given author
4. List the title of specified book
5. List the count of books in the library
6. Exit
Enter one of the above : 1
Enter book name = everything
Enter author name = thiyagu
Enter pages = 300
Enter price = 200
1. Add book information
2. Display book information
3. List all books of given author
4. List the title of specified book
5. List the count of books in the library
6. Exit
Enter one of the above : 1
Enter book name = killer
Enter author name = mohammad
Enter pages = 500
Enter price = 250
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