# MINI PROJECT REPORT

## Raj Gupta

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#### Abstract

This report contains the all information about my mini project in c language, named Second-hand bookselling and buying management system.

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### 1 Introduction

I made the second hand book buying and selling management system. In this project the seller can register book and user can buy these books. Click Here to open the Code.

#### 2 Statistical Information

Starting date/time- 11th Nov.2022/20:00 Starting date/time- 15th Nov.2022/20:00 Total Time Required- 2-3 HR a day Total line of code- 396 lines Number of functions -8 functions

### 3 Function Description

The Developerintro() is to show the developer information.

The *mainmenu()* is used to give choice and according to that choice the other functions are performed.

The SellerBook() is used to store the book by the sellers.

The BuyABook() is used by the buyer to buy the books.

The search() is used to search the book and the author name and matches with the books registered by the seller.

The BuyersDisplay() is used to display the books bought.

The Sellers Display() is used to get the information about the books registered by the seller.

The set color is used to set change the color to desired one.

#### 4 code in C

code:

```
#include <stdio.h>
#include <conio.h>
#include <stdlib.h>
#include <windows.h>
#include <time.h>
#include <ctype.h>
#include <string.h>
// Function Declaration
void Developer_intro();
void main_menu();
void Seller_Book();
void Buy_A_Book();
int search();
void Buyers_Display();
void Sellers_Display();
void setcolor(int ForgC)
        WORD wColor;
        HANDLE hStdOut = GetStdHandle(STD_OUTPUT_HANDLE);
        CONSOLE_SCREEN_BUFFER_INFO csbi;
        if (GetConsoleScreenBufferInfo(hStdOut, &csbi))
                 wColor = (csbi.wAttributes & 0xB0) + (ForgC & 0x0B);
                         Set Console TextAttributes (hStdOut, wColor);
                 SetConsoleTextAttribute(hStdOut, wColor);
        }
}
struct Seller_Details // STRUCTURE DECLARATION
        char Name [20];
        char Name_of_Book[10];
        char Author_name [10];
        char Address [25];
        char Email [20];
        char Phoneno [10];
        char Price [5];
};
```

```
struct Buyer_Details // STRUCTURE DECLARATION
                          char Name [20];
                          char Name_of_Book[10];
                          char Author_name [10];
                          char Address [25];
                          char Email [20];
                          char Phoneno [15];
};
// start of Main function
int main()
                          Developer_intro();
                          main_menu();
                          return 0;
// End of the Main function
// For developer Introduction
void Developer_intro()
                          time_t t;
                          time(\&t);
                          setcolor (15);
                          printf("\n\t\t\t\+\scoond_HAND\_BOOK\_BUUYING\_AND\_SELLING:\_THRIFTSHOP*")
                          printf("\n\t \t Developed By:");
                          printf(" \setminus t \_RAJ \_GUPTA \setminus n");
                          for (int i = 0; i < 80; i++)
                                                    printf("-");
                                       printf("\nCurrent\_date\_and\_time\_: \nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{-10mu}\nspace{
                                       for (int i=0; i <80; i++)
                                                    printf("-");
                          getchar();
}
// For Displaying the main menu
void main_menu()
                          time_t t;
                          time(\&t);
                          short int choice;
                          while (choice != 5)
                          {
```

```
system("cls");
                        printf("\hline t\hline t\hli
                        printf("\n\t\t\t\t\LSECOND\_HAND\_BOOK\_SHOP\_: THRIFTSHOP\_");
                        printf("\n\t\t\t\t\t\t\.....*.MAIN\_MENU\_*");
                       printf("\n\n\t\t\t\t1. Sell\_A\_Book");
                        printf("\n\t\t\t\t\2.Buy\_A\_Book");
                        printf("\hline t\hline t\hli
                       printf("\n\t\t\t4.Get_status");
                        printf("\hline t\t t t5. Seller 's");
                        printf("\n \t \t \t \t \. Exit\n ");
                       for (int i = 0; i < 80; i++)
                        printf("-");
printf("\nCurrent_date_and_time_::\%s",ctime(&t));
                        printf("\n\t \t \t Enter \ Your \ Choice : \ ");
                       scanf("%hu", &choice);
                       switch (choice)
                       case 1:
                                                                       Seller_Book();
                                                                      break;
                       case 2:
                                                                      Buy_A_Book();
                                                                      break;
                       case 3:
                                                                        Buyers_Display();
                                                                      break;
                      \mathbf{case}\ 4\colon\ //\ \mathit{Delivery}\,(\,)\,;
                                                                      break;
                       case 5:
                                                                        Sellers_Display();
                                                                      break;
                       case 6:
                                                                      system("cls");
                                                                        printf("\n\t : *****THANK_YOU*****");
                                                                        printf("\n\t \_FOR\_TRUSTING\_OUR\_SERVICE");
                                                                                                                       Sleep(2000);
                                                                       exit(0);
                                                                      break;
                       default:
```

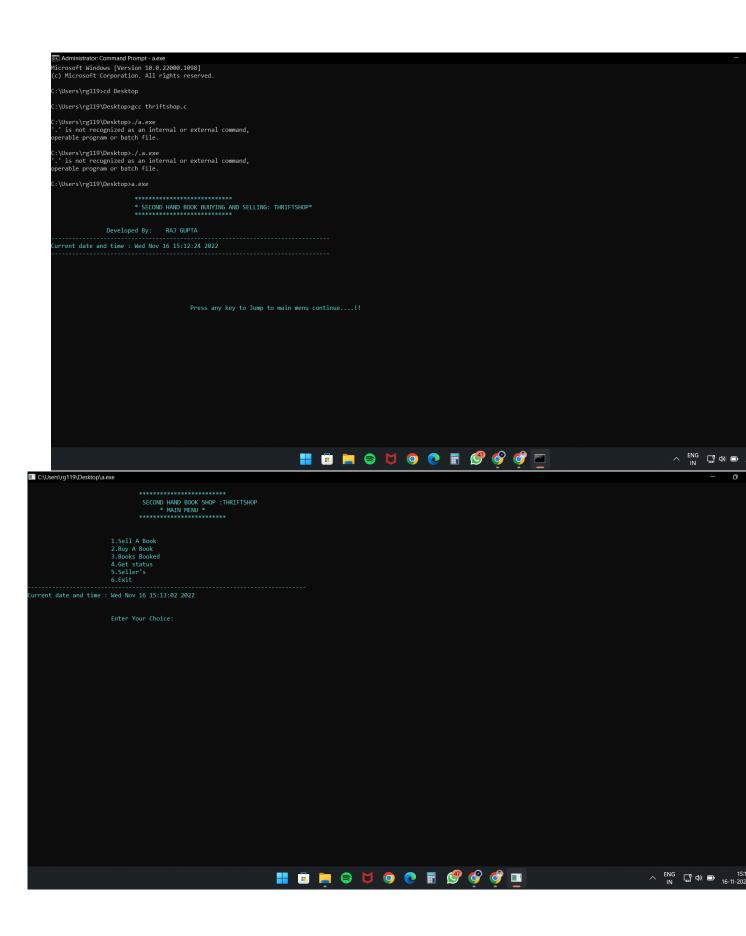
```
{
                           printf("\n\t\t\t\tWrong\_choice ....!!!");
                           printf("\n\t\t) tPress\_any\_key\_to\_\_\_continue ....!!");
                           getch();
                  }
                  }
         }
}
// End of displaying main meu
// Seller function
void Seller_Book()
         FILE *f;
         char test;
         f = fopen("sellers_details.txt", "a+");
         if (f = 0)
         {
                  f = fopen("sellers_details.txt", "w+");
                  system("cls");
                  printf("Please_hold_on_while_we_set_our_database_in_your_com
                  printf("\n_Process_completed_press_any_key_to_continue!!_");
                  getch();
         }
         while (1)
                  struct Seller_Details input;
                  system("cls");
                  printf("\n_Enter_Seller_Details:");
                  printf("\n******************************);
                  printf("Enter_Name:\n");
                  scanf("%s", input.Name);
                  fflush (stdin);
                  printf("Enter_Subject_of_Book:\n");
                  scanf("%s", input.Name_of_Book);
                  fflush (stdin);
                  printf("Enter\_Author\_Name: \n");
                  fgets (input. Author_name, 10, stdin);
                  printf("Enter_Address:\n");
                  fgets (input. Address, 25, stdin);
                  fflush (stdin);
                  \texttt{printf} \, (\, "\, Enter\, \_Email \, : \, \backslash \, n" \,\, ) \, ;
                  scanf(" L%s", input. Email);
                  printf("Enter_Phone_Number:\n");
                  scanf("%s", input.Phoneno);
```

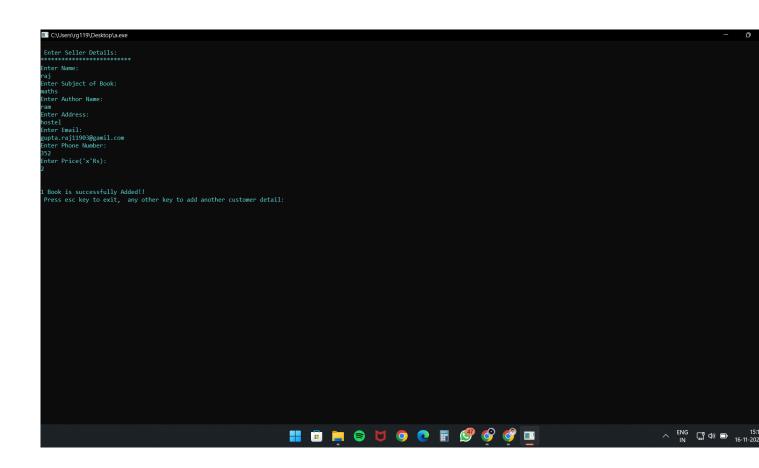
```
fflush (stdin);
                 printf("Enter\_Price(\'x\'Rs):\'n");
                 scanf("%s", input.Price);
                 fflush (stdin);
                 fwrite(&input, sizeof(struct Seller_Details), 1, f);
                 fputs("\n", f);
                 printf("\n\n1\_Book\_is\_successfully\_Added!!");
                 printf("\n_Press_esc_key_to_exit,__any_other_key_to_add_anoth
                 test = getche();
                 if (test = 27)
                          break;
        fclose(f);
}
// Seller function end
// Seller display function
void Sellers_Display()
        FILE *f;
        char test;
struct Seller_Details input;
        if ((f = fopen("sellers_details.txt", "r")) == NULL)
        {
                 exit(0);
        }
                          system("cls");
                          printf("NAME \setminus t ");
                          printf("subject\t");
                          printf("Author \ t");
                          printf("\tADDRESS_");
                          printf("\tEMAIL_");
                          printf("\tPHONENUMBER_");
                          printf(" \setminus t \_PRICE_{-} \setminus n");
                          for (int i = 0; i < 118; i++)
                                   printf("-");
while (1)
                          while (fread(&input, sizeof(struct Seller_Details), 1
                                   printf("\n%s_\t\t_%s\t\t_%s\t\t_%s\t\t_%s\t\t
                          printf("\n_Press_esc_key_to_exit");
                 test = getche();
```

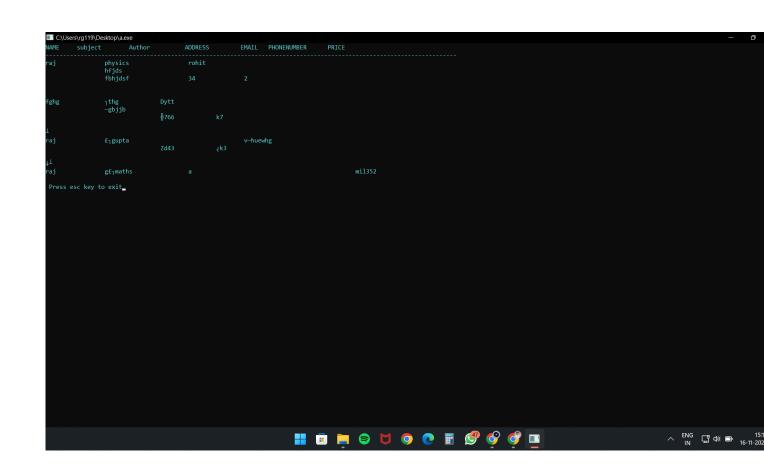
```
if (test = 27)
                             break;
}
                             fclose(f);
// Seller display function ends
// Buyer display function
void Buyers_Display()
{
          struct Buyer_Details inp;
         FILE *f;
         char test;
          if ((f = fopen("Buyers_details.txt", "r")) == NULL)
                   exit(0);
          }
                             system("cls");
                             p \, r \, i \, n \, t \, f \, (\,"N\!A\!M\!E\! \backslash \, t \, \lrcorner" \,\,) \, ;
                             printf("subject\t");
                             printf("Author \ t");
                             printf("\tADDRESS_");
                             printf("\tEMAIL_");
                             p \, r \, i \, n \, t \, f \, (\, " \, \mbox{$^{t$PHONENUMBER}$} \, \mbox{$n$} \, " \, ) \, ; \\
                             for (int i = 0; i < 118; i++)
                                      printf("-");
while (1)
                             while (fread(&inp, sizeof(struct Buyer_Details), 1, f
                             {
                                       printf("\n_Press_esc_key_to_exit");
                   test = getche();
                   if (test = 27)
                             break;
}
                             fclose(f);
}
// Buyer display function ends
```

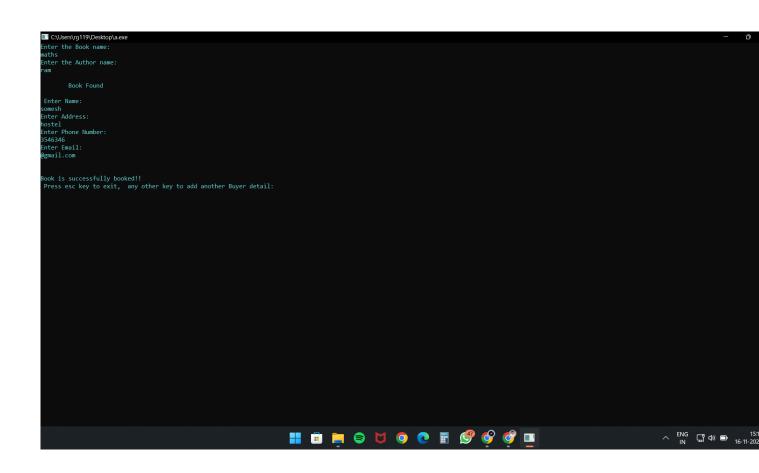
```
// Buyer function
void Buy_A_Book()
struct Buyer_Details inp;
        FILE *f;
        char test;
        f = fopen("Buyers_details.txt", "a+");
        if (f = 0)
                 f = fopen("Buyers_details.txt", "w+");
                 system("cls");
                 printf("Please_hold_on_while_we_set_our_database_in_your_com
                 printf("\n_Process_completed_press_any_key_to_continue!!_");
                 getch ();
        while (1)
                 system("cls");
                 printf("\n_Enter_Buyer_Details:");
                 printf("\n*****************************);
                 int flag = search();
                 if (flag = 0)
                 {
                          printf(" \setminus n \subseteq Enter \subseteq Name: \setminus n");
                          scanf("%s", inp.Name);
                          fflush (stdin);
                          printf("Enter_Address:\n");
                          scanf("%s", inp.Address);
                          printf("Enter\_Phone\_Number: \n");
                          scanf("%s", inp.Phoneno);
                          printf("Enter_Email:\n");
                          scanf(" %s", inp. Email);
                          fflush (stdin);
                          fwrite(&inp, sizeof(struct Buyer_Details), 1, f);
                 printf("\n\nBook_is_successfully_booked!!");
                 printf("\n_Press_esc_key_to_exit,__any_other_key_to_add_anoth
                 test = getche();
                 if (test = 27)
                          break;
        fclose(f);
// Buyer function ends
//search function starts
int search()
        struct Buyer_Details inp;
        struct Seller_Details input;
```

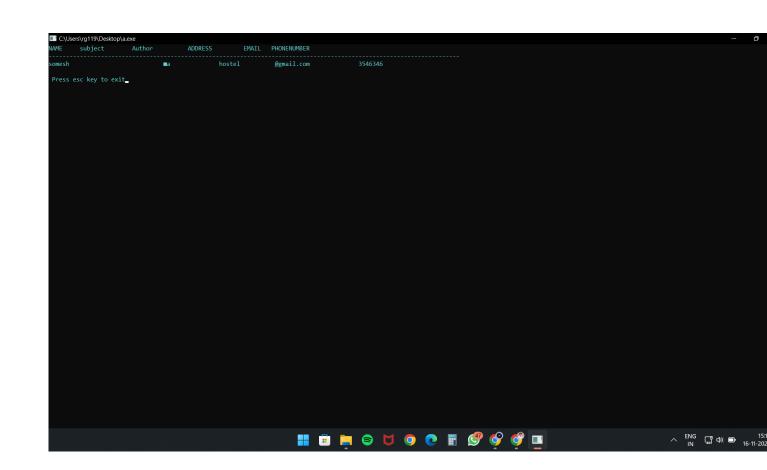
```
system("cls");
        FILE *f;
        char name_of_book[20];
        char Author_name [20];
        int flag = 1;
        int a, b;
        f = fopen("sellers_details.txt", "r+");
        if (f = 0)
                exit(0);
        printf("Enter_the_Book_name:_\n");
        scanf("%s", name_of_book);
        fflush (stdin);
        printf("Enter_the_Author_name:_\n");
        scanf("%s", Author_name);
        while (fread(&input, sizeof(struct Seller_Details), 1, f) = 1)
                a = strcmp(input.Name_of_Book, name_of_book);
                b = strcmp(input.Author_name, Author_name);
                if ((a && b) != 0)
                {
                         flag = 0;
                         printf("\n\tBook\_Found\n\_");
                            strcpy(inp.Name_of_Book, name_of_book);
                         strcpy(inp.Author_name, Author_name);
                         flag = 0;
                         break;
                }
        if (flag == 1)
                printf("\n\tRequested_Book_could_not_be_found!");
        fclose(f);
        return flag;
}
//search function ends
```







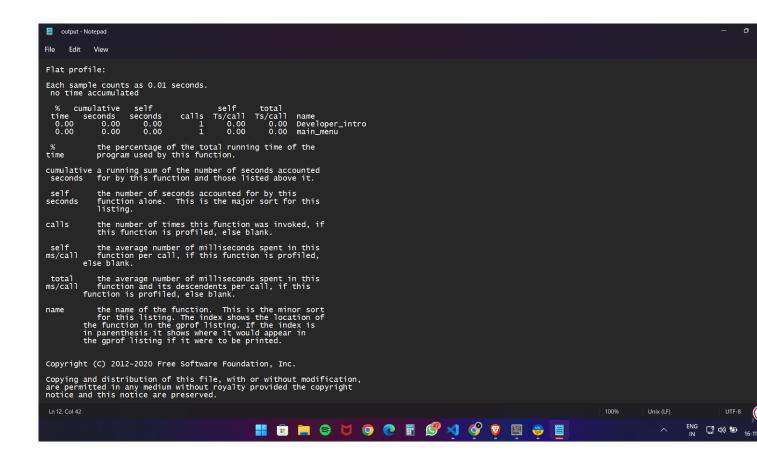


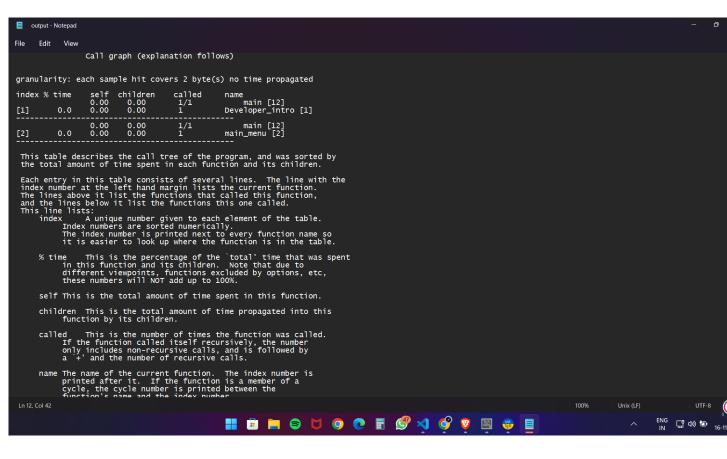


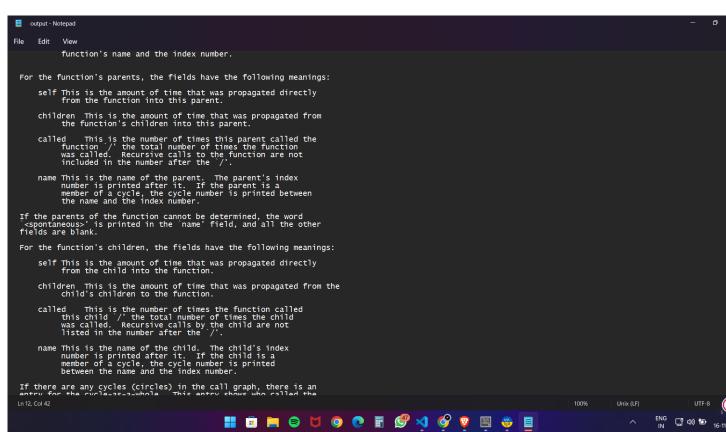
## 5 Profiling

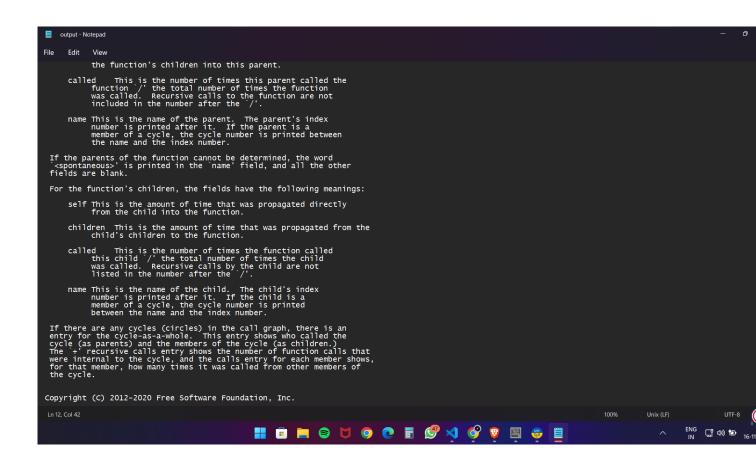
profiling code: ...

- 1. gcc -Wall -pg thriftshop.c -o test
- 2. ./test ... will create gmon.out file
- 3. **gprof test gmon.out** > **output** ... this will convert gmon.out to readable format





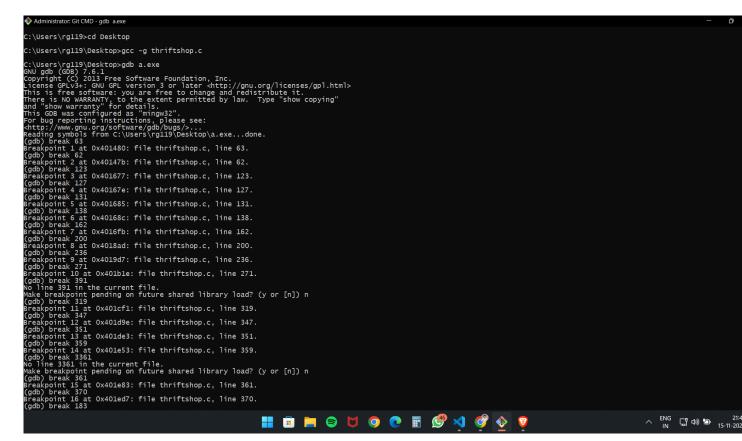




### 6 Debugging

Debugging code: ...

- 1. gcc -g thriftshop.c
- 2. **gdb a.exe** . . . gdb will start
- 3. break linenumber
- 4. run
- 5. q or quit



 $\dots$  The End $\dots$