```c
#include<stdio.h>
#include<conio.h>
#include<string.h>
#include<math.h>
#include<dos.h>
#include<time.h>
#include<ctype.h>
#include<windows.h>

COORD coord = {0, 0};
void gotoxy(int x, int y)
{
 COORD coord;
 coord.X = x;
 coord.Y = y;
 SetConsoleCursorPosition(GetStdHandle(STD_OUTPUT_HANDLE), coord);
}

int i;
//function for auto increment customer & supplier Id.
int getcust_id();
int getsupp_id();
//function for welcome & main menu
void welcome();
void main_menu();
//function for all box
void main_box();
void box1();
void wbox();
//function for bill slip
void bill();
//function for about menu
void about();
//function for medicine menu
void medicine();
void medi_sale();
void stock();
void update_stock();
void medi_entry();
void medi_search();
void remainder();
//function for supplier menu
void supplier();
void supp_entry();
void supp_list();
void sup_update();
void search();
void search_id();
void search_name();
//function for customer menu
```

```c
void customer();
void cust_search();
void search_cid();
void search_cname();
void cust_entry();
void cust_list();
void cust_update();
//function for report menu
void report_menu();
void report();
void sale_rpt();
void sale_rpt_daily();
void profit_rpt();
void pur_rpt();
void pur_rpt_daily();
//===================================structures =========================
struct medical
{
        char id[6];
        char medi_name[20];
        int rack;
        char cabnit[2];
        int quantity;
        float sale;
        float total;
        float unit;
        float cost;
        float profit;
        float bye;
        int qty;
        char pur_date[15];
        char exp_date[15];
        char manu_date[15];
        int bill_no;
        char comp_name[20];
        char supp_name[30];
 };

struct medical temp;
struct medical x[20];
FILE *ptr;

char a[10];
struct supplier
{
        int supp_id;
        char supp_name[25];
        char city[20];
        char mob_no[11];
        char email[30];
```

```c
};
struct supplier temp1;

struct customer
{
        int cust_id;
        char cust_name[30];
        char city[20];
        char mob_no[11];
        char email[50];

};
struct customer temp_c;
FILE *ptr1;

struct bill
{
        char billno[6];
        char cname[30];
        char mediname[30];
        int medi_qty;
        float medi_rate;
        float total;
        int day;
        int month;
        int year;

};
struct bill bil;
FILE *ptrbill;
struct sales_report
{
        char medi_id[6];
        char medir_name[20];
        char cust_name[30];
        int sDay,sMonth,sYear;
        int qty;
        float rate;
        float total;
};
struct sales_report s_r;
FILE *ptrs_r;

struct purchase_report
{
        char medi_id[6];
        char medir_name[20];
        char supp_name[30];
        int sDay,sMonth,sYear;
```

```c
        int qty;
        float rate;
        float total;
};
struct purchase_report p_r;
FILE *ptrp_r;

struct profit_report
{
        char medi_id[6];
        char medir_name[20];
        int sDay,sMonth,sYear;
        int qty;
        float rate;
        float unit;
        float profit;
};
struct profit_report pr_r;
FILE *ptrpr_r;

void linkfloat()
{
        float f,*p;
        p=&f;
        f=*p;
}

//========================Time & Date ===================
int t(void)
{
        //struct date d;
        //struct time t;

    time_t t = time(0);    // get time now
    struct tm * now = localtime( & t );
        //getdate(&d);
        //gettime(&t);
        gotoxy(55,46);
        printf("Date: %d-%d-%d ",now->tm_mday,now->tm_mon,now->tm_year);
        gotoxy(55,48);
        printf("Time: %d:%d:%d",now->tm_hour, now->tm_min,now->tm_sec);
        return 0;
}


//=====================Animation =========================
void animation()
{
        for (i=45; i>=1; i--)
        {
                Sleep(30);
```

```c
                gotoxy(1,i);
                //clreol();
        }
        for (i=1; i<=20; i++)
        {
                //clreol();
                Sleep(40);
                gotoxy(1,i);
        }
}
//========================= validation =========================
void ventry(char t[],int code)
{
   int i=0;
        if(code==0)
        {
                while((t[i]=getch())!='\r' && i<30)
                if((t[i]>=97 && t[i]<=122) || (t[i]>=65 && t[i]<=90) || t[i]==32 ||
t[i]=='_')
                {
                        printf("%c",t[i]);
                        i++;
                }
                else if(t[i]==8 && i>0)
                {
                        printf("%c%c%c",8,32,8);
                        i--;                    //Length counter is decremented.

                }
        }
        else if(code==1)
        {
                while((t[i]=getch())!='\r' && i<10 )
                if((t[i]>=48 && t[i]<=57) || t[i]==46 ||  t[i]=='-')
                {
                        printf("%c",t[i]);
                        i++;
                }
                else if(t[i]==8 && i>0)
                {
                        printf("%c%c%c",8,32,8);
                        i--;                    //Length counter is decremented.

                }
        }
        else if(code==2)
        {
                while((t[i]=getch())!='\r' && i<30 )
                if((t[i]>=97 && t[i]<=122) || (t[i]>=65 && t[i]<=90) ||(t[i]>=48 &&
t[i]<=57) || t[i]==32 || t[i]==8 ||t[i]=='@'||t[i]=='.')
```

```
                {
                        printf("%c",t[i]);
                        i++;
                }
                else if(t[i]==8 && i>0)
                {
                        printf("%c%c%c",8,32,8);
                        i--;                    //Length counter is decremented.

                }
        }

        t[i]='\0';
}
//============================================================================
void box()
{
    for(i=3;i<=79;i++)   //This 'FOR' loop will print a combination of
        {
                gotoxy(i,3);     //the 79th column is reached.
                printf("%c",219);
                gotoxy(78,45);
                printf("%c",219);
                gotoxy(i,45);
                printf("%c",219);
        }

        for(i=3;i<=45;i++)      //This 'FOR' loop will print asterisks 'I'
        {                        //vertically till the 3th row is reached.
                gotoxy(3,i);
                printf("%c",219);
                gotoxy(79,i);
                printf("%c",219);
        }
}
void wbox()
{
        for(i=5;i<=75;i++)      //This 'FOR' loop will print a combination of
        {
                gotoxy(i,5);     //the 75th column is reached.
                printf("%c",219);
                gotoxy(74,40);
                printf("%c",219);
                gotoxy(i,40);
                printf("%c",219);
        }

        for(i=5;i<=40;i++)      //This 'FOR' loop will print asteriks 'I'
        {                        //vertically till the 17th row is reached.
                gotoxy(5,i);
```

```c
                printf("%c",219);
                gotoxy(75,i);
                printf("%c",219);
        }
}
//=======================getsupp_id =====================
int getsupp_id()
{

  FILE *fp;
        fp=fopen("supplier.dat","r");
        if(fp==NULL)
        {
                gotoxy(22,15);
                printf("Data not Found.....");
                getch();
        }
        else
        {
                temp1.supp_id=100;
                rewind(fp);
                while(fscanf(fp,"%d %s %s %s
%s",&temp1.supp_id,temp1.supp_name,temp1.city, temp1.mob_no,temp1.email)!=EOF)
                {
                }
        }
        fclose(fp);
        return temp1.supp_id+1;
}

//=======================getcust_id =====================
int getcust_id()
{
  FILE *fp;
        fp=fopen("customer.dat","r");
        if(fp==NULL)
        {
                gotoxy(22,15);
                printf("Data not Found.....");
                getch();
        }
        else
        {
                temp_c.cust_id=100;
                rewind(fp);
                while(fscanf(fp,"%d %s %s %s
%s",&temp_c.cust_id,temp_c.cust_name,temp_c.mob_no, temp_c.city,temp_c.email)!=EOF)
                {
                }
        }
```

```c
        fclose(fp);
        return temp_c.cust_id+1;
}


//========================welcome screen ==============

void welcome()
{
 int j,k,l,m;
 system("cls");
        for(m=0;m<16;m++)
        {
                //textcolor(m);
                wbox();
        for(i=0;i<16;i++)
        {
                //textcolor(i);
                gotoxy(35,20);
                printf("WELCOME");
                k=i+2;
                //textcolor(k);
                gotoxy(38,22);
                printf("TO");
                l=i+3;
                //textcolor(l);
                gotoxy(28,24);
                printf("MEDICAL");
                //textcolor(l);
                gotoxy(36,24);
                printf("STORE");
                //textcolor(l);
                gotoxy(42,24);
                printf("SYSTEM");
                gotoxy(52,45);
                j=i+1;
                //textcolor(j);
                printf("Loading......");
                Sleep(40);
        }
        }
}
//========================= box for label =========
void lbox()
{
        gotoxy(25,6);
        printf("%c",201);
        for(i=26;i<55;i++)
        {
                gotoxy(i,6);
```

```c
                printf("%c",205);
        }
        gotoxy(55,6);
        printf("%c",187);
        gotoxy(25,6);
        for(i=6;i<8;i++)
        {
                gotoxy(25,i+1);
                printf("%c",186);
        }
        gotoxy(25,9);
        printf("%c",200);
        for(i=26;i<55;i++)
        {
                gotoxy(i,9);
                printf("%c",205);
        }
        gotoxy(55,9);
        printf("%c",188);
        gotoxy(55,6);
        for(i=6;i<8;i++)
        {
                gotoxy(55,i+1);
                printf("%c",186);
        }

}
//=============================small box ==============
void box1()
{
        gotoxy(1,3);
        printf("%c",201);
        for(i=1;i<79;i++)
        {
                gotoxy(1+i,3);
                printf("%c",205);
        }

        gotoxy(80,3);
        printf("%c",187);
        gotoxy(1,3);
        for(i=4;i<10;i++)
        {
                gotoxy(1,i);
                printf("%c",186);
        }
        gotoxy(1,9);
        for(i=4;i<8;i++)
        {
                gotoxy(80,i);
```

```c
            printf("%c",186);
        }
}

//===========================main ===================

int main()
{
        char name[15];
        char pass[15];
        int count=0,i;

        system("cls");

        /*start:
        //textcolor(5);
        wbox();
        lbox();
        //textcolor(GREEN);
        gotoxy(35,8);
        printf(" LOGIN ");

        //textcolor(RED);
        gotoxy(32,18);
        printf("Enter user name :");
        gotoxy(32,22);
        printf("Enter password  :");
        gotoxy(51,18);
        strcpy(gets(name),name);

        gotoxy(51,22);

        i=0;
        do
        {
                pass[i] = getch();
                if(pass[i] == 13 )
                {
                        break;
                }
                else if(pass[i]==8 && i>0)
                {
                        printf("%c%c%c",8,32,8);
                        i--;
                }
                else
                {
                        printf("*");
                        i++;
                }
        }
```

```c
        }while(pass[i]!=13);
        pass[i] = '\0';

        if(strcmp(name,"rana") || strcmp(pass,"singh"))
        {
         system("cls");
         gotoxy(20,20);
         printf("Please Enter vailid Username & Passward!!!!!");
         count++;
         gotoxy(20,23);
         printf("%d chance left!!!!",3-count);
         getch();
         system("cls");
         if(count==3)
         exit(0);
         else
         goto start;
        }
        else
        {*/
         //welcome();
         main_menu();
        //}

}

void main_box()
{
        gotoxy(1,6);
        printf("%c",201);
        for(i=1;i<79;i++)
        {
                gotoxy(1+i,6);
                printf("%c",205);
        }

        gotoxy(80,6);
        printf("%c",187);
        gotoxy(1,6);
        for(i=5;i<35;i++)
        {
                gotoxy(1,2+i);
                printf("%c",186);
        }
        gotoxy(1,37);
        printf("%c",200);
        for(i=1;i<79;i++)
        {
                gotoxy(1+i,37);
                printf("%c",205);
```

```c
        }
        gotoxy(80,37);
        printf("%c",188);
        gotoxy(80,6);
        for(i=5;i<35;i++)
        {
                gotoxy(80,2+i);
                printf("%c",186);
        }
}

void main_menu()
{
   char ch;

        do
        {
                //window(1,1,80,50);
                //textbackground(BLACK);
                system("cls");
                //textcolor(4+BLINK);
                gotoxy(3,5);
                printf("S");
                //textcolor(WHITE);
                gotoxy(4,5);
                printf("upplier Info");
                //textcolor(4+BLINK);
                gotoxy(19,5);
                printf("C");
                //textcolor(15);
                gotoxy(20,5);
                printf("ustomer Info");
                //textcolor(4+BLINK);
                gotoxy(36,5);
                printf("M");
                //textcolor(15);
                gotoxy(37,5);
                printf("edicine");
                //textcolor(4+BLINK);
                gotoxy(48,5);
                printf("R");
                //textcolor(15);
                gotoxy(49,5);
                printf("Report");
                //textcolor(4+BLINK);
                gotoxy(57,5);
                printf("B");
                //textcolor(15);
                gotoxy(58,5);
                printf("ill");
```

```c
//textcolor(4+BLINK);
gotoxy(64,5);
printf("A");
//textcolor(15);
gotoxy(65,5);
printf("bout");
//textcolor(4+BLINK);
gotoxy(72,5);
printf("E");
//textcolor(15);
gotoxy(73,5);
printf("xit");
t();    //this function display date & time
box1();
main_box();
gotoxy(30,10);
//textcolor(GREEN);
printf("Welcome To Medical Store ");
gotoxy(2,28);
//textcolor(15);

remainder();//this function is active when medicine qty is less
then 10.

gotoxy(10,40);
//textcolor(RED+BLINK);
printf("Press ");
gotoxy(16,40);
//textcolor(15);
printf("First Character for further Menu  ");

ch=toupper(getche());
switch(ch)
{
        case 'S':supplier();
                break;
        case 'C':customer();
                break;
        case 'M':medicine();
                break;
        case 'R':report_menu();
                break;
        case 'B':bill();
                break;
        case 'A':about();
                break;
        case 'E':gotoxy(23,20);
                //textcolor(4);
        printf("Do you want to exit now? Y/N :");
        Sleep(100);
        ch=(getche());
```

```
                        ch=toupper(ch);
                        if(ch=='Y')
                        {
                                animation();
                                system("cls");
                                //textcolor(2);
                                gotoxy(35,20);
                                printf(" Please wait.....");
                                Sleep(2000);
                                exit(0);
                        }
                        else
                        {
                                main_menu();
                        }

                        default://textcolor(4+BLINK);
                        gotoxy(11,34);
                        printf("Plese Enter right character ONLY (S,C,M,R,B,A).");
                        getch();
                }
        }while(ch!='E');
}
//========================For supplier ==========================
void supplier()
{
   char ch;
        do
        {
          system("cls");
          gotoxy(34,3);
          //textcolor(GREEN);
          printf("----------------");
          gotoxy(35,4);
          //textcolor(GREEN);
          printf("Supplier MENU");
          gotoxy(34,5);
          //textcolor(GREEN);
          printf("----------------");
          gotoxy(25,11);
          //textcolor(4+BLINK);
          printf("A");
          gotoxy(26,11);
          //textcolor(15);
          printf("dd New Supplier");

          gotoxy(25,15);
          //textcolor(4+BLINK);
          printf("U");
          gotoxy(26,15);
```

```c
//textcolor(15);
printf("pdate Supplier");

gotoxy(25,19);
//textcolor(4+BLINK);
printf("S");
gotoxy(26,19);
//textcolor(15);
printf("earch Supplier");

gotoxy(25,23);
//textcolor(4+BLINK);
printf("L");
gotoxy(26,23);
//textcolor(15);
printf("ist of Existing Supplier");

gotoxy(25,27);
//textcolor(4+BLINK);
printf("M");
gotoxy(26,27);
//textcolor(15);
printf("ain Menu");
main_box();

gotoxy(10,40);
//textcolor(15);
printf("Press First Character for further Operation ");


ch=toupper(getche());
switch(ch)
{
    case 'A':animation();
            supp_entry();
            break;
    case 'U':animation();
            sup_update();
            break;
    case 'L':animation();
            supp_list();
            break;
    case 'S':search();
            break;
    case 'M':main_menu();
            break;
    default://textcolor(4+BLINK);
            gotoxy(11,34);
            printf("Plese Enter right character ONLY (A,L,U,S,M).");
            getch();
```

```c
        }
    }while(ch!='M');

}
//======================For customer ==========================
void customer()
{
        char ch;
        do
        {
          system("cls");

          gotoxy(34,3);
          //textcolor(GREEN);
          printf("---------------");
          gotoxy(35,4);
          printf("Customer Menu.");
          gotoxy(34,5);
          printf("---------------");
          gotoxy(25,11);
          //textcolor(4+BLINK);
          printf("A");
          gotoxy(26,11);
          //textcolor(15);
          printf("dd New Customer");

          gotoxy(25,15);
          //textcolor(4+BLINK);
          printf("U");
          gotoxy(26,15);
          //textcolor(15);
          printf("pdate Customer");

          gotoxy(25,19);
          //textcolor(4+BLINK);
          printf("S");
          gotoxy(26,19);
          //textcolor(15);
          printf("earch Customer");

          gotoxy(25,23);
          //textcolor(4+BLINK);
          printf("L");
          gotoxy(26,23);
          //textcolor(15);
          printf("ist of Existing Customer");

          gotoxy(25,27);
          //textcolor(4+BLINK);
          printf("M");
```

```
        gotoxy(26,27);
        //textcolor(15);
        printf("ain Menu");
        main_box();

        gotoxy(10,40);
        //textcolor(15);
        printf("Press First Character for further Operations  ");


        ch=toupper(getche());
        switch(ch)
        {
            case 'A':animation();
                    cust_entry();
                    break;
            case 'U':animation();
                    cust_update();
                    break;
            case 'L':animation();
                    cust_list();
                    break;
            case 'S':cust_search();
                    break;
            case 'M':main_menu();
                    break;
            default://textcolor(4+BLINK);
                    gotoxy(11,34);
                    printf("Plese Enter right character ONLY (A,L,U,S,M).");
                    getch();
        }
    }while(ch!='M');

}
//========================For Medicine ==========================
void medicine()
{
        char ch;
        do
        {
          system("cls");

          gotoxy(34,3);
          //textcolor(GREEN);
          printf("---------------");
          gotoxy(35,4);
          printf("Medicine Menu.");
          gotoxy(34,5);
          printf("---------------");
          gotoxy(25,15);
```

```c
//textcolor(4+BLINK);
printf("P");
gotoxy(26,15);
//textcolor(15);
printf("urchase New Medicine");

gotoxy(25,19);
//textcolor(4+BLINK);
printf("S");
gotoxy(26,19);
//textcolor(15);
printf("ale Medicine");

gotoxy(25,23);
//textcolor(15);
printf("Sto");
gotoxy(28,23);
//textcolor(4+BLINK);
printf("c");
gotoxy(29,23);
//textcolor(15);
printf("k of Medicine");

gotoxy(25,27);
//textcolor(15);
printf("Se");
gotoxy(27,27);
//textcolor(4+BLINK);
printf("a");
gotoxy(28,27);
//textcolor(15);
printf("rch Medicine");

gotoxy(25,31);
//textcolor(4+BLINK);
printf("M");
gotoxy(26,31);
//textcolor(15);
printf("ain Menu");
main_box();

gotoxy(10,40);
//textcolor(15);
printf("Press First Character for further Operations  ");


ch=toupper(getche());
switch(ch)
{
     case 'P':medi_entry();
```

```c
                        break;
                case 'S':medi_sale();
                        break;
                case 'C':stock();
                        break;
                case 'A':medi_search();
                        break;
                case 'M':main_menu();
                        break;
                default://textcolor(4+BLINK);
                        gotoxy(11,34);
                        printf("Plese Enter right character ONLY (P,S,C,M).");
                        getch();
        }
        }while(ch!='M');

}
//=======================For Report =========================
void report_menu()
{
        char ch;
        do
        {
          system("cls");

          gotoxy(34,3);
          //textcolor(GREEN);
          printf("---------------");
          gotoxy(35,4);
          printf("Report Menu.");
          gotoxy(34,5);
          printf("---------------");
          gotoxy(25,12);
          //textcolor(4+BLINK);
          printf("P");
          gotoxy(26,12);
          //textcolor(15);
          printf("urchase Report");

          gotoxy(25,16);
          //textcolor(4+BLINK);
          printf("S");
          gotoxy(26,16);
          //textcolor(15);
          printf("ale Report");

          gotoxy(25,20);
          //textcolor(15);
          printf("Pr");
          gotoxy(27,20);
```

```c
//textcolor(4+BLINK);
printf("o");
gotoxy(28,20);
//textcolor(15);
printf("fit Report");

gotoxy(25,24);
//textcolor(15);
printf("D");
gotoxy(26,24);
//textcolor(4+BLINK);
printf("a");
gotoxy(27,24);
//textcolor(15);
printf("ily Sale Report");

gotoxy(25,28);
//textcolor(4+BLINK);
printf("D");
gotoxy(26,28);
//textcolor(15);
printf("aily Purchase Report");

gotoxy(25,32);
//textcolor(4+BLINK);
printf("M");
gotoxy(26,32);
//textcolor(15);
printf("ain Menu");
main_box();

gotoxy(10,40);
//textcolor(15);
printf("Press First Character for further Operations  ");


ch=toupper(getche());
switch(ch)
{
    case 'P':pur_rpt();
            break;
    case 'S':sale_rpt();
            break;
    case 'A':sale_rpt_daily();
            break;
    case 'O':profit_rpt();
            break;
    case 'D':pur_rpt_daily();
            break;
    case 'M':main_menu();
```

```c
                            break;
                    default://textcolor(4+BLINK);
                            gotoxy(11,34);
                            printf("Plese Enter right character ONLY (P,S,O,M).");
                            getch();
                }
        }while(ch!='M');

}

void about()
{   int c;
    system("cls");

    do
    {
//    window(1,1,80,50);

        //textcolor(LIGHTGRAY);
        gotoxy(28,4);
        //textcolor(RED+BLINK);
        printf("***** MEDICAL STORE *****");
        gotoxy(10,8);
        printf("=> This Project Is About Medical Store ");
        gotoxy(10,10);
        printf("=> In This Project we Can Add Medicine ,Customer,Supplier
Details");
        gotoxy(10,12);
        printf("=> We Can Modifed & Delete Existing Record");
        gotoxy(10,14);
        printf("=> We Can Also Search Medicine ,Customer,Supplier Details");
        gotoxy(10,16);
        printf("=> It's Helpfull For Display Stock Of Medicine ");

        printf("<<<<-Press 1 for main menu->>>>");
        c = (getche());

        switch (c)       //This 'SWITCH' structure will ask the user for input from
[1] to [7] and will display error on Invalid Entry.
                {
                        case '1':animation(); main_menu();
                                gotoxy(26,24);
                                puts("<<--ENTER FROM 1 PLEASE-->>");     //This
message will only print on INVALID ENTRY and Will ask again for input.
                                getch();
                }

}while(c != '1');

}
```

```c
//=====================Remainder for medicine stock ===============
void remainder()
{
        ptr1=fopen("medical.dat","r");
        if(ptr1==NULL)
        {
        //      printf("\n\t Can not open File! ");
        }
        while((fread(&temp,sizeof(temp),1,ptr1))==1)
        {
                if(temp.quantity<10)
                {
                        gotoxy(10,45);
                        //textcolor(RED);
                        printf("%s : ",temp.medi_name);
                        printf("Quantity of this medicine is less then 10");
                }
        }
}

//=====================for bill ============================
void bill()
{
//struct date d;
    time_t td = time(0);    // get time now
    struct tm * now = localtime( & td );

        FILE *ptrbill;
        char id[6];
        int j=1,d1,m,y,k;
        float netamt=0.0;
        //getdate(&d);
        d1=now->tm_mday;
        m=now->tm_mon;
        y=now->tm_year;
        system("cls");
        ptrbill=fopen("dbbill.dat","r");
        gotoxy(13,4);
        printf("Enter bill no : ");
        scanf("%s",&id);
        system("cls");
        gotoxy(25,3);
        ////textcolor(YELLOW+BLINK);
       // printf("***** CareWell Medico *****");
        box();
        gotoxy(7,7);
        printf("Bill No: ");
        printf(" %s",id);
        gotoxy(7,9);
        printf("Customer Name: ");
```

```c
        gotoxy(50,7);
        printf("Date : ");
        printf("%d-%d-%d",d1,m,y);
        gotoxy(7,12);
        printf("Sr.No   Medicine Name        Qty            Rate          Total ");
        gotoxy(6,14);

printf("-----------------------------------------------------------------");

        i=15;
        while(fscanf(ptrbill,"%s %s %s %d %f %f %d %d
%d",bil.billno,bil.cname,bil.mediname,&bil.medi_qty,&bil.medi_rate,&bil.total,&bil.
day,&bil.month,&bil.year)!=EOF)
        {

                do
                {
                 if(strcmp(id,bil.billno)==0)
                 {
                        gotoxy(7,i);
                        printf(" %d",j);
                        gotoxy(14,i);
                        printf(" %s",bil.mediname);
                        gotoxy(22,9);
                        printf(" %s",bil.cname);
                        gotoxy(35,i);
                        printf(" %d",bil.medi_qty);
                        gotoxy(47,i);
                        printf(" %.2f",bil.medi_rate);
                        gotoxy(60,i);
                        printf(" %.2f",bil.total);
                        netamt=netamt+bil.total;
                        i++;
                        j++;
                        gotoxy(35,32);
                        printf("                             ");
                        gotoxy(20,50);
                        //textcolor(YELLOW+BLINK);
                        printf("Press Any key to go to  MENU ...........");

                        //      break;
                }

        }while(feof(ptrbill));

        }


        gotoxy(6,35);
```

```c
        printf("---------------------------------------------------------------------");
                gotoxy(50,37);
                printf("Net Amount : ");
                printf("%.2f",netamt);

                fclose(ptrbill);
                getch();
}

//========FOR SUPPLIERS ENTRY=================
void supp_entry()
{
 int id;
 char ch;
 FILE *fp;
 system("cls");

                fp=fopen("supplier.dat","a");
                if(fp==NULL)
                {
                        printf("\n Can not open file!!");
                        exit(0);
                }
                system("cls");
                ch='y';
                while(ch=='y')
                {
                        system("cls");
                        //textcolor(14);
                        t();
                        box();
                        lbox();
                        gotoxy(30,8);
                        printf(" SUPPLIER ENTRY ");
                        gotoxy(8,13);
//                      //flushall();
                        temp1.supp_id=getsupp_id();
                        printf("SUPPLIER ID : %d ",temp1.supp_id);
                        //ventry(temp1.supp_id,1);
                        //flushall();
                        gotoxy(39,13);
                        printf("SUPPLIER NAME : ");
                        gotoxy(8,18);
                        printf("CITY          : ");
                        gotoxy(39,18);
                        printf("CONTACT NO.   : ");
                        gotoxy(8,23);
                        printf("EMAIL ID    : ");
```

```c
                gotoxy(55,13);
                //flushall();
                ventry(temp1.supp_name,0);
                gotoxy(22,18);
                ventry(temp1.city,0);
                //flushall();
                gotoxy(55,18);
                ventry(temp1.mob_no,1);
                //flushall();
                gotoxy(22,23);
                gets(temp1.email);
                //flushall();

                gotoxy(20,30);
                //textcolor(RED+BLINK);
                printf("S");
                //textcolor(WHITE);
                gotoxy(21,30);
                printf("ave");
                gotoxy(28,30);
                //textcolor(RED+BLINK);
                printf("C");
                //textcolor(WHITE);
                gotoxy(29,30);
                printf("ancel");
                gotoxy(18,36);
                printf("Press First charecter for the operation : ");
                ch=getch();
                if(ch=='s' || ch=='S')
                {
                        fprintf(fp,"%d %s %s %s
%s\n\n",temp1.supp_id,temp1.supp_name,temp1.mob_no,temp1.city,temp1.email);
                        fprintf(fp,"\n");
                        //flushall();
                        system("cls");
                        gotoxy(20,20);
                        printf("Supplier Added successfully!!!!!");
                        //textcolor(10);
                        gotoxy(20,25);
                        printf("More entries  [y/n]");
                        ch=getche();
                }
        }
        fclose(fp);

}
//=========FOR SUPPLIER DISPLAY LIST ==========
void supp_list()
{
 char ch;
```

```
  int j;
  system("cls");
          ptr1=fopen("supplier.dat","r");
          if(ptr1==NULL)
          {
                printf("\n\t Can not open File! ");
                exit(0);
          }
          system("cls");
          box();
          t();
          //textcolor(GREEN+BLINK);
          gotoxy(8,48);
          printf("Press Anykey to go to SUPPLIER MENU !!!");
          //textcolor(GREEN);
          lbox();
          gotoxy(30,8);
          printf(" SUPPLIER LIST ");
          //textcolor(WHITE);
          gotoxy(5,10);
          printf("ID.  SUPPLIER NAME.     PH.NO.     CITY.         EMAIL");
          gotoxy(4,12);
          i=14;

printf("=================================================================");
          while(fscanf(ptr1,"%d %s %s %s
%s",&temp1.supp_id,temp1.supp_name,temp1.city,temp1.mob_no,temp1.email)!=EOF)
          {
                gotoxy(4,i);
                printf(" %d",temp1.supp_id);
                gotoxy(9,i);
                printf(" %s",temp1.supp_name);
                gotoxy(29,i);
                printf(" %s",temp1.city);
                gotoxy(41,i);
                printf(" %s",temp1.mob_no);
                gotoxy(54,i);
                printf(" %s",temp1.email);
                i=i+2;
          }
          getche();
}
//=====================search supplier=================
void search()
{
  int ch;

        do
         {
            system("cls");
```

```c
//textcolor(WHITE);
gotoxy(17,10);
printf(" Two options Available for searching ");
gotoxy(15,15);
printf("Search by");
gotoxy(25,15);
//textcolor(RED+BLINK);
printf("I");
//textcolor(WHITE);
gotoxy(26,15);
printf("D number");

gotoxy(15,18);
printf("Search by");
gotoxy(25,18);
//textcolor(RED+BLINK);
printf("N");
//textcolor(WHITE);
gotoxy(26,18);
printf("ame");

gotoxy(15,21);
//textcolor(RED+BLINK);
printf("R");
//textcolor(WHITE);
gotoxy(16,21);
printf("eturn");
main_box();
gotoxy(17,24);
printf("Press First charecter for the operation : ");
ch=toupper(getche());
switch(ch)
{
    case 'I':
            animation();
            search_id();

            break;
    case 'N':
            animation();
            search_name();
            break;
    case 'R':
            animation();
            supplier();
            break;
    default:
            gotoxy(22,18);
            printf("You entered wrong choice!!!!!");
            getch();
```

```
            }
          }while(ch!='R');

}
//============================= Search by id ============================
void search_id()
{
   int id;
   FILE *fp;

          fp=fopen("supplier.dat","r");
          if(fp==NULL)
          {
            printf("file can't open!!!!");

          }
          system("cls");
          box();
          gotoxy(13,8);
          printf("Enter id to be searched:");
          scanf("%d",&id);
          gotoxy(20,35);
          //textcolor(YELLOW);
          printf("Press Any key to Return Back Menu ....");
          gotoxy(12,14);
          printf("ID.  SUPPLIER NAME.   CITY.    PH.NO.        EMAIL");
          gotoxy(12,16);
          i=18;

printf("==============================================================");
          while(fscanf(fp,"%d %s %s %s
%s",&temp1.supp_id,temp1.supp_name,temp1.mob_no,temp1.city,temp1.email)!=EOF)
          {
              if(temp1.supp_id==id)
              {
                    gotoxy(10,i);
                    printf(" %d",temp1.supp_id);
                    gotoxy(15,i);
                    printf(" %s",temp1.supp_name);
                    gotoxy(30,i);
                    printf(" %s",temp1.city);
                    gotoxy(40,i);
                    printf(" %s",temp1.mob_no);
                    gotoxy(53,i);
                    printf(" %s",temp1.email);
                    i++;
                    break;
              }
          }
          if(temp1.supp_id!=id)
```

```c
            {
                gotoxy(20,30);
                printf("Record not found!");
            }
            fclose(fp);
            getche();
}
//========================= Search by name ============================
void search_name()
{
   char name[20];
   FILE *fp;

            fp=fopen("supplier.dat","r");
            if(fp==NULL)
            {
              printf("file can't open!!!!");

            }
            system("cls");
            box();
            fp=fopen("supplier.dat","rb");
            gotoxy(13,8);
            printf(" Enter Supplier Name to be searched : ");
            scanf("%s",&name);
            gotoxy(20,35);
            //textcolor(YELLOW);
            printf("Press Any key to Return Back Menu ....");
            gotoxy(12,14);
            printf("ID. SUPPLIER NAME.  CITY.     PH.NO.        EMAIL");
            gotoxy(12,16);
            i=18;

printf("===============================================================");

            while(fscanf(fp,"%d %s %s %s
%s",&temp1.supp_id,temp1.supp_name,temp1.mob_no, temp1.city,temp1.email)!=EOF)
            {
                if(strcmp(temp1.supp_name,name)==0)
                {
                        gotoxy(11,i);
                        printf(" %d",temp1.supp_id);
                        gotoxy(15,i);
                        printf(" %s",temp1.supp_name);
                        gotoxy(30,i);
                        printf(" %s",temp1.city);
                        gotoxy(40,i);
                        printf(" %s",temp1.mob_no);
                        gotoxy(53,i);
                        printf(" %s",temp1.email);
```

```c
                        i++;
                        break;
                }
        }
        if(strcmp(temp1.supp_name,name)!=0)
        {
                gotoxy(20,30);
                //textcolor(YELLOW);
                printf("Record not found!!!");
        }
        fclose(ptr1);
        getche();
}
//===========supp update================
void sup_update()
{
  int i;
  char ch;
  int sid;
  FILE *ft;
  system("cls");
  box();
        ptr1=fopen("supplier.dat","rb+");
        if(ptr1==NULL )
        {
                printf("\n\t Can not open file!! ");
                exit(0);
        }
        lbox();
        gotoxy(30,8);
        printf(" Modifying Supplier ");
        gotoxy(12,13);
        printf("Enter supplier ID :  ");
      // //flushall();
        scanf("%d",&sid);
        gotoxy(12,15);

                ft=fopen("temp.dat","w");
                if(ft==NULL)
                {
                        printf(" Can not open file");
                        exit(1);
                }
                else
                {
                        while(fscanf(ptr1,"%d %s %s %s
%s",&temp1.supp_id,temp1.supp_name,temp1.mob_no, temp1.city,temp1.email)!=EOF)
                        {
                                if(temp1.supp_id==sid)
                                {
```

```c
                                                gotoxy(18,17);
                                                printf(" Existing Record  ");
                                                gotoxy(10,19);
                                                printf("%d\t %s \t%s \t%s
\t%s",temp1.supp_id,temp1.supp_name,temp1.mob_no, temp1.city,temp1.email);
                                                gotoxy(12,22);
                                                printf("Enter New Name      : ");
                                                //flushall();
                                                ventry(temp1.supp_name,0);
                                                gotoxy(12,24);
                                                printf("Enter New mobile no  : ");
                                                //flushall();
                                                ventry(temp1.mob_no,1);
                                                gotoxy(12,26);
                                                printf("Enter New City      : ");
                                                //flushall();
                                                ventry(temp1.city,0);
                                                gotoxy(12,28);
                                                printf("Enter New email      : ");
                                                //flushall();
                                                ventry(temp1.email,2);
                                                gotoxy(20,32);
                                                //textcolor(RED+BLINK);
                                                printf("U");
                                                gotoxy(21,32);
                                                //textcolor(WHITE);
                                                printf("pdate");
                                                gotoxy(30,32);
                                                //textcolor(RED+BLINK);
                                                printf("C");
                                                gotoxy(31,32);
                                                //textcolor(WHITE);
                                                printf("ancel");
                                                gotoxy(18,36);
                                                printf("Press First charecter for the
operation : ");

                                                ch=getch();
                                                if(ch=='u' || ch=='U')
                                                {
                                                    fprintf(ft,"%d %s %s %s
%s\n",temp1.supp_id,temp1.supp_name,temp1.mob_no,temp1.city,temp1.email);
                                                        //flushall();
                                                        gotoxy(20,38);
                                                        printf("Supplier updated
successfully...");

                                                        remove("supplier.dat");
                                                        rename("temp.dat","supplier.dat");

                                                }
                                }
```

```c
                        else
                        {
                                fprintf(ft,"%d %s %s %s
%s\n",temp1.supp_id,temp1.supp_name,temp1.mob_no,temp1.city,temp1.email);
                                fflush(stdin);
                        }
                }

        fclose(ft);
        fclose(ptr1);
        }
}
//==============================END OF SUPPLIER FUNCTION==================
//========FOR CUSTOMER ENTRY=================
void cust_entry()
{
 char ch;
 int id;
 FILE *fp;
 system("cls");
        fp=fopen("customer.dat","a");
        if(fp==NULL)
        {
                printf("\n Can not open file!!");
                exit(0);
        }
        system("cls");
        ch='y';
        while(ch=='y')
        {
                system("cls");
                //textcolor(14);
                t();
                box();
                lbox();
                gotoxy(30,8);
                printf(" CUSTOMER ENTRY ");
                gotoxy(8,13);
                //flushall();
                temp_c.cust_id=getcust_id();
                printf("CUSTOMER ID :%d",temp_c.cust_id);
                //ventry(temp_c.cust_id,1);
                //flushall();
                gotoxy(39,13);
                printf("CUSTOMER NAME : ");
                gotoxy(8,18);
                printf("CITY         : ");
                gotoxy(39,18);
                printf("CONTACT NO.   : ");
                gotoxy(8,23);
```

```c
                printf("EMAIL ID    : ");

                gotoxy(55,13);
                //flushall();
                ventry(temp_c.cust_name,0);
                gotoxy(22,18);
                ventry(temp_c.city,0);
                //flushall();
                gotoxy(55,18);
                ventry(temp_c.mob_no,1);
                //flushall();
                gotoxy(22,23);
                gets(temp_c.email);
                //flushall();

                gotoxy(20,30);
                //textcolor(RED+BLINK);
                printf("S");
                //textcolor(WHITE);
                gotoxy(21,30);
                printf("ave");
                gotoxy(28,30);
                //textcolor(RED+BLINK);
                printf("C");
                //textcolor(WHITE);
                gotoxy(29,30);
                printf("ancel");
                gotoxy(18,36);
                printf("Press First charecter for the operation : ");
                ch=getch();
                if(ch=='s' || ch=='S')
                {
                        fprintf(fp,"%d %s %s %s
%s\n",temp_c.cust_id,temp_c.cust_name,temp_c.mob_no, temp_c.city,temp_c.email);
                        fprintf(fp,"\n");
                        fflush(stdin);
                        system("cls");
                        gotoxy(20,20);
                        printf("Customer Added Successfully!!!!!");
                        //textcolor(10);
                        gotoxy(20,25);
                        printf("More entries  [y/n] ");
                        ch=getche();

                }
        }
        fclose(fp);
}

//=========FOR CUSTOMER DISPLAY LIST ==========
```

```c
void cust_list()
{
 char ch;
 system("cls");
        ptr1=fopen("customer.dat","r");
        if(ptr1==NULL)
        {
             printf("\n\t Can not open File! ");
             exit(0);
        }
        system("cls");
        box();
        //textcolor(GREEN+BLINK);
        gotoxy(8,48);
        printf("Press Anykey to go to CUSTOMER MENU!!!");
        //textcolor(GREEN);
        lbox();
        gotoxy(30,8);
        printf(" CUSTOMER LIST ");
        //textcolor(WHITE);
        i=14;
        gotoxy(5,10);
        printf(" ID. CUSTOMER NAME.   CITY.    MOBILE.NO.       EMAIL");
        gotoxy(4,12);

printf("===============================================================");
        while(fscanf(ptr1,"%d %s %s %s
%s",&temp_c.cust_id,temp_c.cust_name,temp_c.mob_no, temp_c.city,temp_c.email)!=EOF)
        {
             gotoxy(4,i);
             printf(" %d",temp_c.cust_id);
             gotoxy(11,i);
             printf(" %s",temp_c.cust_name);
             gotoxy(28,i);
             printf(" %s",temp_c.city);
             gotoxy(40,i);
             printf(" %s",temp_c.mob_no);
             gotoxy(53,i);
             printf(" %s",temp_c.email);
             i=i+2;
        }
        getche();
}
//=====================search CUSTOMER=================
void cust_search()
{
   int ch;

        do
         {
```

```c
system("cls");
//textcolor(WHITE);
gotoxy(17,10);
printf(" Two options Available for searching ");
gotoxy(15,15);
printf("Search by");
gotoxy(25,15);
//textcolor(RED+BLINK);
printf("I");
//textcolor(WHITE);
gotoxy(26,15);
printf("D number");

gotoxy(15,18);
printf("Search by");
gotoxy(25,18);
//textcolor(RED+BLINK);
printf("N");
//textcolor(WHITE);
gotoxy(26,18);
printf("ame");

gotoxy(15,21);
//textcolor(RED+BLINK);
printf("R");
//textcolor(WHITE);
gotoxy(16,21);
printf("eturn");
main_box();
gotoxy(17,24);
printf("Press First charecter for the operation : ");
ch=toupper(getche());
switch(ch)
{
    case 'I':
            animation();
            search_cid();

            break;
    case 'N':
            animation();
            search_cname();
            break;
    case 'R':
            animation();
            customer();
            break;
    default:
            gotoxy(22,18);
            printf("You entered wrong choice!!!!!");
```

```c
                    getch();
                }
            }while(ch!='R');
        getche();
}
//=========================Search by CustomerId========================
void search_cid()
{
    int id;
    system("cls");
    box();
            ptr1=fopen("customer.dat","rb");
            gotoxy(13,8);
            printf("\xDB\xDB\xB2  Enter id to be searched:");
            scanf("%d",&id);
            //textcolor(GREEN);
            //textcolor(WHITE);
            i=18;
            gotoxy(9,15);
            printf(" ID. CUSTOMER NAME.    CITY.     MOBILE.NO.      EMAIL");
            gotoxy(8,16);

printf("============================================================");
            while(fscanf(ptr1,"%d %s %s %s
%s",&temp_c.cust_id,temp_c.cust_name,temp_c.mob_no, temp_c.city,temp_c.email)!=EOF)
            {
                if(temp_c.cust_id==id)
                {
                        gotoxy(8,i);
                        printf(" %d",temp_c.cust_id);
                        gotoxy(15,i);
                        printf(" %s",temp_c.cust_name);
                        gotoxy(28,i);
                        printf(" %s",temp_c.city);
                        gotoxy(40,i);
                        printf(" %s",temp_c.mob_no);
                        gotoxy(54,i);
                        printf(" %s",temp_c.email);
                        gotoxy(20,35);
                        //textcolor(YELLOW);
                        printf("Press Any key to go to CUSTOMER MENU ...........");
                        break;
                }
            }
            if(temp_c.cust_id!=id)
            {
                gotoxy(20,30);
                printf("Record not found!");
            }
            fclose(ptr1);
```

```c
        getche();
}
/****************************search by CUSTOMERname****************************/
void search_cname()
{
  char name[20];
  system("cls");
  box();
            ptr1=fopen("customer.dat","rb");
            gotoxy(12,8);
            printf("\xDB\xDB\xB2  Enter Customer Name to be searched:");
            scanf("%s",&name);
            //textcolor(GREEN);
            //textcolor(WHITE);
            i=18;
            gotoxy(9,15);
            printf(" ID. CUSTOMER NAME.    CITY.     MOBILE.NO.      EMAIL");
            gotoxy(8,16);

printf("=============================================================");
            while(fscanf(ptr1,"%d %s %s %s
%s",&temp_c.cust_id,temp_c.cust_name,temp_c.mob_no, temp_c.city,temp_c.email)!=EOF)
            {
                  if(strcmp(temp_c.cust_name,name)==0)
                  {
                          gotoxy(8,i);
                          printf(" %d",temp_c.cust_id);
                          gotoxy(15,i);
                          printf(" %s",temp_c.cust_name);
                          gotoxy(28,i);
                          printf(" %s",temp_c.city);
                          gotoxy(40,i);
                          printf(" %s",temp_c.mob_no);
                          gotoxy(54,i);
                          printf(" %s",temp_c.email);
                          gotoxy(20,35);
                          //textcolor(YELLOW);
                          printf("Press Any key to go to CUSTOMER MENU ...........");
                          break;
                  }
            }
            if(strcmp(temp_c.cust_name,name)!=0)
            {
                  gotoxy(5,10);
                  //textcolor(YELLOW);
                  printf("Record not found!");
            }
            fclose(ptr1);
         getche();
}
```

```
//===========CUSTOMER update================
void cust_update()
{
  int i;
  char ch;
  int cid;
  FILE *ft;
  system("cls");
  box();
        ptr1=fopen("customer.dat","rb+");
        if(ptr1==NULL)
        {
            printf("\n\t Can not open file!! ");
            exit(0);
        }
        lbox();
        gotoxy(30,8);
        printf(" Modifying customer ");
        gotoxy(12,13);
        printf("Enter the CUSTOMER ID : ");
        scanf("%d",&cid);
        gotoxy(12,15);

            ft=fopen("temp.txt","w");
            if(ft==NULL)
            {
                    printf("\n Can not open file");
                    exit(0);
            }
            else
            {

                    while(fscanf(ptr1,"%d %s %s %s
%s",&temp_c.cust_id,temp_c.cust_name,temp_c.mob_no, temp_c.city,temp_c.email)!=EOF)
                        {
                                if(temp_c.cust_id==cid)
                                {
                                        gotoxy(25,17);
                                        printf("*** Existing Record ***");
                                        gotoxy(10,19);
                                        printf("%d\t %s \t%s \t%s
\t%s",temp_c.cust_id,temp_c.cust_name,temp_c.mob_no, temp_c.city,temp_c.email);
                                        gotoxy(12,22);
                                        printf("Enter New Name        : ");
                                        //flushall();
                                        ventry(temp_c.cust_name,0);
                                        gotoxy(12,24);
                                        printf("Enter New mobile no    : ");
                                        //flushall();
                                        ventry(temp_c.mob_no,1);
```

```c
                                    gotoxy(12,26);
                                    printf("Enter New City          : ");
                                    //flushall();
                                    ventry(temp_c.city,0);
                                    gotoxy(12,28);
                                    printf("Enter New email          : ");
                                    //flushall();
                                    scanf("%s",temp_c.email);
                                    gotoxy(20,32);
                                    //textcolor(RED+BLINK);
                                    printf("U");
                                    gotoxy(21,32);
                                    //textcolor(WHITE);
                                    printf("pdate");
                                    gotoxy(30,32);
                                    //textcolor(RED+BLINK);
                                    printf("C");
                                    gotoxy(31,32);
                                    //textcolor(WHITE);
                                    printf("ancel");
                                    gotoxy(18,35);
                                    printf("Press First charecter for the
operation : ");

                                    ch=getche();
                                    if(ch=='u' || ch=='U')
                                    {
                                    fprintf(ft,"%d %s %s %s
%s\n",temp_c.cust_id,temp_c.cust_name,temp_c.mob_no, temp_c.city,temp_c.email);
//           fprintf(ft,"\n");
                                    fflush(stdin);
                                    gotoxy(20,36);
                                    printf("Customer updated successfully...");
                                    remove("customer.dat");
                                    rename("temp.txt","customer.dat");
                                    }                                        }
                                    else
                                    {
                                    fprintf(ft,"%d %s %s %s
%s\n",temp_c.cust_id,temp_c.cust_name,temp_c.mob_no, temp_c.city,temp_c.email);
                                    fflush(stdin);
                                    }
                            }


        fclose(ft);
        fclose(ptr1);
    }

}
```

```c
//============================ END OF CUSTOMER FUNCTION ==================
//============================ FOR MEDICINE PURCHASE    ==================
void medi_entry()
{
  char ch,id[6];
//  struct date d;
    time_t t = time(0);    // get time now
    struct tm * now = localtime( & t );
  int f;
  FILE *fp;
  system("cls");
          //getdate(&d);

          ptrp_r=fopen("purreport.dat","a");
          ch='Y';
          while(ch=='Y')
          {
                  system("cls");
                  box();
                  //textcolor(14);
//                t();  // THIS FUN IS USED FOR DISPLAY DATE & TIME.......
                  lbox();
                  gotoxy(30,8);
                  ////textcolor(GREEN+BLINK);
                  printf(" MEDICINE PURSHASE  ");
                  {
                          //textcolor(WHITE);
                          gotoxy(7,11);
                          printf("MEDICINE ID    : ");

                          gotoxy(40,11);
                          printf("MEDICINE NAME  : ");

                          gotoxy(7,14);
                          printf("ENTER RACK NO  : ");

                          gotoxy(40,14);
                          printf("CABNIT NO      : ");

                          gotoxy(7,18);
                          printf("COMPANY NAME    : ");

                          gotoxy(40,18);
                          printf("SUPPLIER NAME  : ");

                          gotoxy(7,21);
                          printf("UNIT COST   Rs.:  ");

                          gotoxy(40,21);
                          printf("SALE COST   Rs.: ");
```

```c
gotoxy(7,24);
printf("QUANTITY        :  ");

gotoxy(7,27);
printf("MFG.DATE(dd-mm-yyyy): ");

gotoxy(7,29);
printf("EXP.DATE(dd-mm-yyyy): ");

gotoxy(25,11);
ventry(temp.id,1);
strcpy(id,temp.id);

fp=fopen("medical.dat","r");
while((fread(&temp,sizeof(temp),1,fp))==1)
{

if(strcmp(id,temp.id)==0)
{
        f=1;
        break;
}
}
fclose(fp);
if(f==1)
{
        gotoxy(20,31);
        printf("ID Allready Exists");
        getche();
        system("cls");
        medi_entry();
}
else
{
ptr=fopen("medical.dat","a+b");
strcpy(temp.id,id);
strcpy(p_r.medi_id,temp.id);
}
//flushall();
gotoxy(58,11);
ventry(temp.medi_name,0);
strcpy(p_r.medir_name,temp.medi_name);
//flushall();
gotoxy(25,14);
ventry(a,1);
temp.rack= atoi(a);//atoi() used for convert str to int.
//flushall();
gotoxy(58,14);
ventry(temp.cabnit,2);
```

```c
                        //flushall();
                        gotoxy(25,18);
                        ventry(temp.comp_name,0);
                        //flushall();
                        gotoxy(58,18);
                        ventry(temp.supp_name,0);
                        strcpy(p_r.supp_name,temp.supp_name);
                        //flushall();
                        gotoxy(25,21);
                        ventry(a,1);
                        temp.unit= atof(a);
                        //flushall();
                        p_r.rate=temp.unit;
                        gotoxy(58,21);
                        ventry(a,1);
                        temp.sale= atof(a);
                        //flushall();
                        gotoxy(25,24);
                        ventry(a,1);
                        temp.quantity= atoi(a);
                        p_r.qty=temp.quantity;
                        //flushall();
                        gotoxy(29,27);
                        //flushall();
                        ventry(temp.manu_date,1);
                        gotoxy(29,29);
                        //flushall();
                        ventry(temp.exp_date,1);

                        gotoxy(7,31);

        printf("========================================================");
                        temp.total=temp.quantity*temp.sale;

                        //textcolor(10);
                        gotoxy(10,33);
                        printf("TOTAL SALE COST = Rs. %.2f",temp.total);
                        temp.cost=(temp.unit*temp.quantity);
                        gotoxy(40,33);
                        printf("TOTAL UNIT COST = Rs. %.2f",temp.cost);
                        p_r.total=temp.cost;
                        p_r.sDay=now->tm_mday;
                        p_r.sMonth=now->tm_mon;
                        p_r.sYear=now->tm_year;
                 }
              gotoxy(20,35);
              //textcolor(RED+BLINK);
              printf("S");
              //textcolor(WHITE);
              gotoxy(21,35);
```

```c
                printf("ave");
                gotoxy(28,35);
                //textcolor(RED+BLINK);
                printf("C");
                //textcolor(WHITE);
                gotoxy(29,35);
                printf("ancel");
                gotoxy(18,38);
                printf("Press First charecter for the operation : ");


                ch=toupper(getche());

                if(ch=='S')
                {
                        fwrite(&temp,sizeof(temp),1,ptr);
                        fflush(stdin);
                        //textcolor(10);
                        fprintf(ptrp_r,"%s %s %s %d %.2f %.2f %d %d
%d\n",p_r.medi_id,p_r.medir_name,p_r.supp_name,p_r.qty,p_r.rate,p_r.total,p_r.sDay,
p_r.sMonth,p_r.sYear);
                        system("cls");
                        gotoxy(20,20);
                        printf("Medicine Added sucessfully!!!!!!");
                        gotoxy(20,25);
                        printf("More entries  [y/n]");
                        ch=toupper(getche());
                /*      if(ch=='Y')
                        {
                                system("cls");
                                medi_entry();
                        }*/
                }

        }
        fclose(ptr);
        fclose(ptrp_r);
}
//==========FOR MEDICINE SALE=========================
void medi_sale()
{
  struct bill bil;
  //struct date d;
  time_t t = time(0);    // get time now
    struct tm * now = localtime( & t );
  int j,n,i,a,billno;
  int d1,m,y;
  float b,total,rate;
  char tar[30],ch,mediname[30],c_name[30],cname[30];
  FILE *fp,*fpc;
```

```c
    int count=0;
    //getdate(&d);
    d1=now->tm_mday;
    m=now->tm_mon;
    y=now->tm_year;
            ch='y';
            while(ch=='y')
            {
                    fp = fopen("dbbill.dat","a");
                    ptr1 = fopen("customer.dat","r");
                    ptr = fopen("medical.dat","r");
                    ptrs_r=fopen("saleRpt.dat","a");
                    ptrpr_r=fopen("profitRpt.dat","a");
                    system("cls");
                    box();
                    for(i=3;i<=45;i++)      //This 'FOR' loop will print asteriks 'I'
                    {                       //vertically till the 3th row is reached.
                    gotoxy(50,i);
                    printf("%c",219);
                    }
                    i=9;
                    gotoxy(52,7);
                    printf("Cust_ID    Cust_Name");
                    //flushall();
                    while(fscanf(ptr1,"%d %s %s %s
%s",&temp_c.cust_id,temp_c.cust_name,temp_c.mob_no, temp_c.city,temp_c.email)!=EOF)
                    {
                            gotoxy(53,i);
                            printf("%d",temp_c.cust_id);
                            gotoxy(64,i);
                            printf("%s",temp_c.cust_name);
                            i+=2;
                    }

                    gotoxy(9,7);
                    printf("ENTER MEDICINE ID TO BE SOLD  : ");
                    ventry(tar,1);
                    //scanf("%s",&tar);
                    j=0;
                    while((fread(&temp,sizeof(temp),1,ptr))==1)
                    {
                            if((strcmp(temp.id,tar)<0) || (strcmp(temp.id,tar)>0))
                            {
                                    x[j] = temp;
                                    j++;
                            }
                            else if((strcmp(temp.id,tar)==0))
                            {

                                    gotoxy(8,10);
```

```c
                                  printf(" Medicine Name          :
%s",temp.medi_name);

                                  gotoxy(8,12);
                                  printf(" Quantity in stock     : %d",temp.quantity);
                                  gotoxy(8,14);
                                  printf(" Sales price           : %.2f",temp.sale);
                                  gotoxy(8,16);
                                  printf("Enter bill number     : ");
                                  //flushall();
                                  ventry(bil.billno,1);
                                  //scanf("%s",&bil.billno);
                                  gotoxy(8,18);
                                  printf("Enter customer Name   : ");
                                  //flushall();
                                  ventry(c_name,0);
                                  //scanf("%s",&c_name);
                                  gotoxy(8,20);
                                  printf("Quantity want to sale : ");
                                  //ventry(a,1);
                                  scanf("%d",&a);

                                  pr_r.profit=(temp.sale-temp.unit)*a;
                                  x[j]=temp;
                                  x[j].quantity=(x[j].quantity-a);
                                  x[j].total=(x[j].quantity*temp.sale);
                                  x[j].cost=(x[j].quantity*temp.unit);
                                  x[j].bye=(x[j].sale*a);
                                  b=x[j].bye;
                                  x[j].qty=a;
                                  j++;
                                  count++;
                                  strcpy(bil.cname,c_name);
                                  strcpy(s_r.cust_name,c_name);
                                  strcpy(bil.mediname,temp.medi_name);
                                  bil.medi_qty=a;
                                  bil.medi_rate=temp.sale;
                                  bil.total=temp.sale*a;

                                  bil.day=d1;
                                  bil.month=m;
                                  bil.year=y;

                                  fprintf(fp,"%s %s %s %d %.2f %.2f %d %d
%d\n",bil.billno,bil.cname,bil.mediname,bil.medi_qty,bil.medi_rate,bil.total,bil.da
y,bil.month,bil.year);
                                  fflush(stdin);

                                  fclose(fp);

                                  s_r.sDay=d1;
```

```c
                              s_r.sMonth=m;
                              s_r.sYear=y;
                              strcpy(s_r.medi_id,tar);
                              strcpy(s_r.medir_name,temp.medi_name);
                              s_r.qty=a;
                              s_r.rate=temp.sale;
                              s_r.total=temp.sale*a;

                              //sale report
                              fprintf(ptrs_r,"%s %s %s %d %.2f %.2f %d %d
%d\n",s_r.medi_id,s_r.medir_name,s_r.cust_name,s_r.qty,s_r.rate,s_r.total,s_r.sDay,
s_r.sMonth,s_r.sYear);
                              fflush(stdin);
                              fclose(ptrs_r);
                              //profit report

                              pr_r.sDay=d1;
                              pr_r.sMonth=m;
                              pr_r.sYear=y;
                              strcpy(pr_r.medi_id,tar);
                              strcpy(pr_r.medir_name,temp.medi_name);
                              pr_r.qty=a;
                              pr_r.rate=temp.sale;
                              pr_r.unit=temp.unit;
                              fprintf(ptrpr_r,"%s %s %d %d %d %d %.2f %.2f
%.2f\n",pr_r.medi_id,pr_r.medir_name,d1,pr_r.sMonth,pr_r.sYear,pr_r.qty,pr_r.unit,p
r_r.rate,pr_r.profit);
                              fflush(stdin);
                              fclose(ptrpr_r);

                      }
              }
              if (count==0)
              {
                      system("cls");
                      gotoxy(33,10);
                      printf("Not in stock!!!!!");
                      getch();
                      return;
              }
              fclose(ptr1);
              fclose(ptr);
              n = j;
              system("cls");
              ptr=fopen("medical.dat","wb");
              for(i=0; i<n; i++)
              fwrite(&x[i],sizeof(x[i]),1,ptr);
              fclose(ptr);
              system("cls");
              box();
```

```c
                gotoxy(8,15);
                printf("* Price paid by customer = %.2f",b);
                gotoxy(8,17);
                printf("* Quantity sold          = %d",a);
                getch();
                gotoxy(10,20);
                printf("more enteries=(y/n) :");
                ch=getche();
        }

}
//=========================MEDICINE STOCK===================================
void stock()
{
  char ch;
  int i,c;
        do
        {
                system("cls");
                ptr1=fopen("medical.dat","r");
                if(ptr1==NULL)
                {
                        printf("\n\t Can not open File! ");
                        exit(1);
                }
                system("cls");
                box();
                lbox();
                //textcolor(GREEN);
                gotoxy(30,8);
                ////textcolor(GREEN+BLINK);
                printf(" STOCK OF MEDICINE ");
                //textcolor(WHITE);
                i=14;
                gotoxy(9,10);
                printf("ID.   MEDICINE NAME.    QTY     Supplier Name
Exp.Date");
                gotoxy(9,12);

printf("===============================================================\n");

                while((fread(&temp,sizeof(temp),1,ptr1))==1)
                {
                        gotoxy(9,i);
                        printf(" %s",temp.id);
                        gotoxy(15,i);
                        printf(" %s",temp.medi_name);
                        gotoxy(32,i);
                        printf(" %d",temp.quantity);
                        gotoxy(43,i);
```

```
                    printf(" %s",temp.supp_name);
                    gotoxy(60,i);
                    printf(" %s",temp.exp_date);
                    i++;
             }
             gotoxy(10,42);
             printf("Press [1] for Update Medicine Stock  & [0] for main menu
");
             c = (getche());
             switch (c)
             {
                    case '0':animation();
                            main_menu();
                            break;
                    case '1':update_stock();
                            break;
             }

      }while(c != '1');
      getche();
}
//============================ FOR MEDICINE SEARCH ====================
void medi_search()
{
  char mid[6];
  int i,c;
  system("cls");
          ptr1=fopen("medical.dat","r");
          if(ptr1==NULL)
          {
               printf("\n\t Can not open File! ");
               exit(0);
          }
          system("cls");
          box();

          gotoxy(10,7);
          printf("Enter Medicine Id to be searched : ");
          scanf("%s",&mid);
          system("cls");
          box();
          lbox();
          //textcolor(GREEN);
          gotoxy(30,8);
          //textcolor(GREEN+BLINK);
          printf(" MEDICINE ");
          //textcolor(WHITE);
          i=14;
          gotoxy(9,10);
          printf("ID.   MEDICINE NAME.    QTY    Supplier Name     Exp.Date");
```

```c
            gotoxy(9,12);

    printf("===================================================================\n");
            while((fread(&temp,sizeof(temp),1,ptr1))==1)
            {
                if(strcmp(mid,temp.id)==0)
                {
                        gotoxy(9,i);
                        printf(" %s",temp.id);
                        gotoxy(15,i);
                        printf(" %s",temp.medi_name);
                        gotoxy(32,i);
                        printf(" %d",temp.quantity);
                        gotoxy(43,i);
                        printf(" %s",temp.supp_name);
                        gotoxy(60,i);
                        printf(" %s",temp.exp_date);
                        i++;
                        break;
                }

            }
            if(strcmp(mid,temp.id)!=0)
            {
                gotoxy(20,20);
                printf("Not in Stock.....");
            }
            getche();

}
//=========================== FOR MEDICINE UPDATE ====================
void update_stock()
{
  char mid[6];
  int j,a,count=0,n;
  system("cls");
            ptr=fopen("medical.dat","rb");
            if(ptr==NULL)
            {
                printf("\n\t Can not open File! ");
                exit(0);
            }
            system("cls");
            box();
            gotoxy(20,45);
            printf("Press Enter to go to MENU ...........");
            //textcolor(GREEN);
            gotoxy(27,8);
            ////textcolor(GREEN+BLINK);
            printf(" UPDATE MEDICINE QUANTITY ");
```

```c
            //textcolor(WHITE);
            gotoxy(9,10);
            printf("Enter medicine id to be update qty: ");
            scanf("%s",&mid);
            j=0;

            while((fread(&temp,sizeof(temp),1,ptr))==1)
            {
                if((strcmp(temp.id,mid)<0) || (strcmp(temp.id,mid)>0))
                {
                        x[j] = temp;
                        j++;
                }
                else
                {
                        gotoxy(8,12);
                        printf("Medicine Name     : %s",temp.medi_name);
                        gotoxy(8,14);
                        printf("Quantity in stock : %d",temp.quantity);
                        gotoxy(8,16);
                        printf("Quantity want to update : ");
                        scanf("%d",&a);
                        x[j]=temp;
                        x[j].quantity=(x[j].quantity+a);
                        x[j].total=(x[j].quantity*temp.sale);
                        x[j].cost=(x[j].quantity*temp.unit);
                        x[j].bye=(x[j].sale*a);
                        x[j].qty=a;
                        j++;
                        count++;
                }
            }
            if (count==0)
            {
                    system("cls");
                    gotoxy(33,10);
                    printf("Not in stock!!!!!!");
                    getch();
                    return;
            }
            fclose(ptr);
            n = j;
            system("cls");
            ptr=fopen("medical.dat","wb");
            for(i=0; i<n; i++)
            fwrite(&x[i],sizeof(x[i]),1,ptr);
            fclose(ptr);
}
//===================== view report ===========================/
void sale_rpt()
```

```c
{
  char ch;
  int j;
  system("cls");
          ptrs_r=fopen("saleRpt.dat","r");
          if(ptrs_r==NULL)
          {
                  printf("\n\t Can not open File! ");
                  exit(0);
          }
          system("cls");
          box();
          gotoxy(20,50);
          printf("Press any key to go to REPORT MENU ...........");
          lbox();
          //textcolor(GREEN);
          gotoxy(30,8);
          ////textcolor(GREEN+BLINK);
          printf("Sales Report");
          //textcolor(WHITE);
          gotoxy(7,10);
          printf("ID. Medicine Name.  Customer Name.   Qty.  Rate.  Total.
Date");
          gotoxy(7,12);

printf("=================================================================");
          j=14;
          while(fscanf(ptrs_r,"%s %s %s %d %f %f %d %d
%d\n",s_r.medi_id,s_r.medir_name,s_r.cust_name,&s_r.qty,&s_r.rate,&s_r.total,&s_r.s
Day,&s_r.sMonth,&s_r.sYear)!=EOF)
          {
                  gotoxy(6,j);
                  printf("%s",s_r.medi_id);
                  gotoxy(11,j);
                  printf("%s",s_r.medir_name);
                  gotoxy(28,j);
                  printf("%s",s_r.cust_name);
                  gotoxy(44,j);
                  printf("%d",s_r.qty);
                  gotoxy(50,j);
                  printf("%.2f",s_r.rate);
                  gotoxy(57,j);
                  printf("%.2f",s_r.total);
                  gotoxy(65,j);
                  printf("%d-%d-%d",s_r.sDay,s_r.sMonth,s_r.sYear);
                  j=j+2;
          }
          getche();
}
//===================== VIEW PURCHASE REPORT ===========================
```

```c
void pur_rpt()
{
  char ch;
  int j;
  system("cls");
  t();
  box();
          ptrp_r=fopen("purreport.dat","r");
          if(ptrp_r==NULL)
          {
               printf("\n\t Can not open File! ");
               exit(0);
          }
          gotoxy(20,50);
          printf("Press Enter to go to REPORT MENU ...........");
          lbox();
          //textcolor(GREEN);
          gotoxy(30,8);
          printf("Purchase Report");
          //textcolor(WHITE);
          gotoxy(7,10);
          printf("ID. Medicine Name.  Supplier Name.   Qty.  Rate.  Total.
Date");
          gotoxy(7,12);

printf("=======================================================================");
          j=14;
          while(fscanf(ptrp_r,"%s %s %s %d %f %f %d %d
%d\n",p_r.medi_id,p_r.medir_name,p_r.supp_name,&p_r.qty,&p_r.rate,&p_r.total,&p_r.s
Day,&p_r.sMonth,&p_r.sYear)!=EOF)
          {
               gotoxy(6,j);
               printf("%s",p_r.medi_id);
               gotoxy(11,j);
               printf("%s",p_r.medir_name);
               gotoxy(28,j);
               printf("%s",p_r.supp_name);
               gotoxy(44,j);
               printf("%d",p_r.qty);
               gotoxy(50,j);
               printf("%.2f",p_r.rate);
               gotoxy(57,j);
               printf("%.2f",p_r.total);
               gotoxy(65,j);
               printf("%d-%d-%d",p_r.sDay,p_r.sMonth,p_r.sYear);
               j+=2;
          }
          getche();
}
//======================= report of profit ===========================
```

```c
void profit_rpt()
{
  char ch;
  int j;
  system("cls");
  t();
  box();
          ptrpr_r=fopen("profitRpt.dat","r");
          if(ptrpr_r==NULL)
          {
              printf("\n\t Can not open File! ");
          //        exit(0);
          }
          gotoxy(20,50);
          printf("Press Enter to go to REPORT MENU ...........");
          lbox();
          //textcolor(GREEN);
          gotoxy(30,8);
          printf("Profit Report");
          //textcolor(WHITE);
          gotoxy(7,10);
          printf("ID. Medicine Name.   Date        Qty.  Unit Price  Sale Price.
Profit. ");
          gotoxy(7,12);

printf("======================================================================");
          j=14;
          while(fscanf(ptrpr_r,"%s %s %d %d %d %d %f %f %f
\n",pr_r.medi_id,pr_r.medir_name,&pr_r.sDay,&pr_r.sMonth,&pr_r.sYear,&pr_r.qty,&pr_
r.unit,&pr_r.rate,&pr_r.profit)!=EOF)
              {
                  gotoxy(6,j);

                  printf("%s",pr_r.medi_id);
                  gotoxy(11,j);
                  printf("%s",pr_r.medir_name);
                  gotoxy(28,j);
                  printf("%d-%d-%d",pr_r.sDay,pr_r.sMonth,pr_r.sYear);
                  gotoxy(40,j);
                  printf("%d",pr_r.qty);
                  gotoxy(48,j);
                  printf("%.2f",pr_r.unit);
                  gotoxy(60,j);
                  printf("%.2f",pr_r.rate);
                  gotoxy(70,j);
                  printf("%.2f",pr_r.profit);
                  gotoxy(10,j);
                  printf("%c",124);
                  j+=2;
```

```
            }
            getche();
}

void sale_rpt_daily()
{
   char ch;
   int j,d,m,y;
   float total=0.00;
   system("cls");
            ptrs_r=fopen("saleRpt.dat","r");
            if(ptrs_r==NULL)
            {
                printf("\n\t Can not open File! ");
                exit(0);
            }
            system("cls");
            gotoxy(15,10);
            printf("Enter Date(dd-mm-yyyy):  ");
            scanf("%d-%d-%d",&d,&m,&y);
            system("cls");
            gotoxy(20,50);
            printf("Press any key to go to REPORT MENU ...........");
            box();
            lbox();
            //textcolor(GREEN);
            gotoxy(30,8);
            ////textcolor(GREEN+BLINK);
            printf("Sales Report");
            //textcolor(WHITE);
            gotoxy(7,10);
            printf("ID. Medicine Name.  Customer Name.   Qty.  Rate.  Total.
Date");
            gotoxy(7,12);

printf("=================================================================");
            j=14;
            while(fscanf(ptrs_r,"%s %s %s %d %f %f %d %d
%d\n",s_r.medi_id,s_r.medir_name,s_r.cust_name,&s_r.qty,&s_r.rate,&s_r.total,&s_r.s
Day,&s_r.sMonth,&s_r.sYear)!=EOF)
            {
                if(d==s_r.sDay &&m== s_r.sMonth && y==s_r.sYear)
                {
                gotoxy(6,j);
                printf("%s",s_r.medi_id);
                gotoxy(11,j);
                printf("%s",s_r.medir_name);
                gotoxy(28,j);
                printf("%s",s_r.cust_name);
                gotoxy(44,j);
```

```c
                printf("%d",s_r.qty);
                gotoxy(50,j);
                printf("%.2f",s_r.rate);
                gotoxy(57,j);
                printf("%.2f",s_r.total);
                gotoxy(65,j);
                printf("%d-%d-%d",s_r.sDay,s_r.sMonth,s_r.sYear);
                j=j+2;
                total=total+s_r.total;
                }
            }
            gotoxy(7,42);

printf("-------------------------------------------------------------------");
            gotoxy(45,43);
            printf("Total:         %.2f",total);
            getche();
}
void pur_rpt_daily()
{
   char ch;
   int j,d,m,y;
   float total=0.00;

            ptrp_r=fopen("purreport.dat","r");
            if(ptrp_r==NULL)
            {
                printf("\n\t Can not open File! ");
                exit(0);
            }
            system("cls");
            gotoxy(15,10);
            printf("Enter Date(dd-mm-yyyy):  ");
            scanf("%d-%d-%d",&d,&m,&y);
            system("cls");
            gotoxy(20,50);
            printf("Press Enter to go to REPORT MENU ...........");
            t();
            box();
            lbox();
            //textcolor(GREEN);
            gotoxy(30,8);
            printf("Purchase Report");
            //textcolor(WHITE);
            gotoxy(7,10);
            printf("ID. Medicine Name.  Supplier Name.   Qty.  Rate.   Total.
Date");
            gotoxy(7,12);

printf("=================================================================");
```

```c
            j=14;
            while(fscanf(ptrp_r,"%s %s %s %d %f %f %d %d
%d\n",p_r.medi_id,p_r.medir_name,p_r.supp_name,&p_r.qty,&p_r.rate,&p_r.total,&p_r.s
Day,&p_r.sMonth,&p_r.sYear)!=EOF)
            {
                if(d==p_r.sDay &&m== p_r.sMonth && y==p_r.sYear)
                {
                gotoxy(6,j);
                printf("%s",p_r.medi_id);
                gotoxy(11,j);
                printf("%s",p_r.medir_name);
                gotoxy(28,j);
                printf("%s",p_r.supp_name);
                gotoxy(44,j);
                printf("%d",p_r.qty);
                gotoxy(50,j);
                printf("%.2f",p_r.rate);
                gotoxy(57,j);
                printf("%.2f",p_r.total);
                gotoxy(65,j);
                printf("%d-%d-%d",p_r.sDay,p_r.sMonth,p_r.sYear);
                j+=2;
                total=total+p_r.total;
                }
            }
            gotoxy(7,42);

printf("-------------------------------------------------------------------");
            gotoxy(45,43);
            printf("Total:        %.2f",total);
            getche();
}

//============================================:) THE END :)
==============================
```